```
acttattaag agcaaacttt agtgtctcta agttatgact gtgaaatgat tggtaggaaa    1740
tagaatgaaa agtttagtgt ttctttatct actaattgag ccatttaatt tttaaatgtt    1800
tatattagat aaccatattc acaatggaaa ctttaggtct agtttctttt gatagtattt    1860
ataatataaa tcaatcttat tactgagagt gcaaattgta caaggtattt acacatacaa    1920
cttcatataa ctgagatgaa tgtaattttg aactgtttaa cacttttgt tttttgctta     1980
ttttgttgga gtattattga agatgtgatc aatagattgt aatacacata tctaaaaata   2040
gttaacacag atcaagtgaa cattacattg ccatttttaa ttcattctgg tctttgaaag   2100
aaatgtacta ctaaagggca ctagttgtga aatttagggt gttaaacttt ttaccaagta   2160
ccaaaatccc caaattcact ttattatttt gcttcaggat ccaagtgaca aagttatata   2220
tttataaaat tgccataaat tcgccaaaaa tctaatgttg tctttttaat gttagtgatc   2280
cacctgcctc agcctcccaa agtgctggga ttacaggctt gaaagtctaa cttttttta   2340
cttatatatt tgatacatat aattctttg gctttgaaac ttgcaacttt gagaacaaaa    2400
cagtccttta aattttgcac tgctcaattc tgttttcgt ttgcattgtc tttaatataa    2460
taaaagttat tacctttaca taaaaaaaaa                                      2490
```

<210> 6378
<211> 2375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(1155)
<223> similar to gi1815637 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6378
```
gggccatggg gctgggccgg gtcctgctgt ttctggccgt cgccttccct tttgcacccc      60
cggcagccgc cgctgagccc cacagtcttc gttacaacct catggtgctg tcccaggatg     120
gatctgtgca gtcagggttt ctcgctgagg gacatctgga tggtcagccc ttcctgcgct     180
atgacaggca gaaacgcagg gcaaagcccc agggacagtg ggcagaagat gtcctgggag     240
ctaagacctg ggacacagag accgaggact tgacagagaa tgggcaagac ctcaggagga     300
ccctgactca tatcaaggac cagaaaggag gcttgcattc cctccaggag attagggtct     360
gtgagatcca tgaagacagc agcaccaggg gctcccggca tttctactac gatggggagc     420
tcttcctctc ccaaaacctg gagactcaag aatcgacagt gccccagtcc tccagagctc     480
agaccttggc tatgaacgtc acaaatttct ggaaggaaga tgccatgaag accaagacac     540
actatcgcgc tatgcaggca gactgcctgc agaaactaca gcgatatctg aaatccgggg     600
tggccatcag gagaacagtg cccccatgg tgaatgtcat ctgcagcgag gtctcagagg     660
gcaacatcac cgtgacatgc agggcttcca gcttctatcc ccggaatatc acactgacct     720
ggcgtcagga tggggtatct ttgagccaca acacccagca gtggggggat gtcctgcctg     780
atgggaatgg aacctaccag acctgggtgg ccaccaggat tcgccaagga gaggagcaga     840
ggttcacctg ctacatggaa cacagcggga tcacggcac tcaccctgtg ccctctggga     900
aggcgctggt gcttcagagt caacggacag actttccata tgtttctgct gctatgccat     960
gttttgttat tattattatt ctctgtgtcc cttgttgcaa gaagaaaaca tcagcggcag   1020
agggtccaga gcttgtgagc ctgcaggtcc tggatcaaca cccagttggg acaggagacc   1080
acagggatgc agcacagctg ggcatttcag cctctgatgt cagctactgg gtccactggt   1140
tccactgagg gcacctagac tctacagcca ggcggccagg attcaactcc ctgcctggat   1200
ctcaccagca ctttccctct gtttcctgac ctatgaaaca gagaaaataa catcacttat   1260
ttattgttgt tggatgctgc aaagtgttag taggtatgag gtgtttgctg ctctgccacg   1320
tagagagcca gcaaagggat catgaccaac tcaacattcc attggaggct atatgatcaa   1380
```

```
acagcaaatt gtttatcatg aatgcaggat gtgggcaaac tcacgactgc tcctgccaac    1440
agaaggtttg ctgagggcat tcactccatg gtgctcattg gagttatcta ctgggtcatc    1500
tagagcctat tgtttgagga atgcagtctt acaagcctac tctggaccca gcagctgact    1560
ccttcttcca cccctcttct tgctatctcc tataccaata aatacgaagg gctgtggaag    1620
atcagagccc ttgttcacga gaagcaagaa gcccctgac cccttgttcc aaatatactc    1680
ttttgtcttt ctctttattc ccacgttcgc cctttgttca gtccaataca gggttgtggg    1740
gcccttaaca gtgccatatt aattggtatc attatttctg ttgttttgt ttttgttttt    1800
gtttttgttt ttgagacaga gtctcactct gtcacccagg ctgcagttca ctggtgtgat    1860
ctcagctcac tgcaacctct gcctcccagg ttcaagcact tctcgtacct cagactcccg    1920
aatagctggg attacagaca ggcaccacca cacccagcta attttgtat ttttgtaga    1980
gacggggttt cgccaagttg accagcccag tttcaaactc ctgacctcag gtgatctgcc    2040
tgccttggca tcccaaagtg ctgggattac aagaatgagc caccgtgcct ggcctatttt    2100
attatattgt aatatatttt attatattag ccaccatgcc tgtcctattt tcttatgttt    2160
taatatattt taatatatta catgtgcagt aattagatta tcatgggtga actttatgag    2220
tgagtatctt ggtgatgact cccctgacc agcccaggac cagctttctt gtcaccttga    2280
ggtcccctcg ccccgtcaca ccgttatgca ttactctgtg tctactatta tgtgtgcata    2340
atttataccg taaatgttta ctctttaaat agaaa                              2375
```



```
        <210> 6379
        <211> 1446
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1447)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (1127)...(253)
        <223> similar to gi4101574 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```



```
        <400> 6379
tttttttttt ttccatgccc atcagggttt attgtttctg taacagcggc cacgccctgg     60
ggcggtggcc tgtgcagctg gagatctctc agcaccttgg gttggggggcg gggctgggcg    120
ggacatggga tggaggcggt gcctgtggcc agacagggtg gaccttgggg cctgcaggca    180
ggagatgagt tcggcggcca cagtggcccc cagcagcagc agcagcagcg ggaggttcag    240
cgggcgcgct caccgcacca ggtggaaggt gagccagtac atgagcatag gctgcgccgc    300
cgccaccgcc atggtcaggt acatgcgcag ctggttccgg gccccacgca ccgggacccc    360
ctcagctgct gcgtctgcca agatcttcag ccgcagcgtc cggatcatga acacaaagat    420
ggctacgcag caccagccca gcaccaggta gtagccaatc ttcccgaaga gcaggcccat    480
gaggaccccg ccaatcatcc cgacatattt gtagcccaag aaggccacca ggtcgatggt    540
ggtgaggtcg gtgttgacag tgaccagata gaggctgagc aggatggcca gcacctccag    600
ggtcagccag gccagggctg agctcgcttg cagccccagg aggtctgggg agaacctatc    660
ctgggtcccc agcgcaagac cagccaccaa aacgtaggtg atgaaagcca ttgctggaat    720
gtagaggtcc ggggcattga cgtcaaagcg ggggccacc ggggtgtcct gttggtactg    780
cacttccag tcctggtgta ggtaggggaa gaacagcagg cccagctttc tgcccacata    840
catggtgtcc acagcaaagt aatacttgag cttggtgatg gggatgaagc ggtcgatgtt    900
```

```
cttatccacc agctccttgc cctgcgcggc caggctgctc ccataggcca tggccatgtt      960
ggacaccggg tcagccagga aggctgcatg gggcgtggga gaggctgcag gataactcag     1020
gccaccaggt gcccgctggg ccccatagcc ccggctctgg gctgaacttg tgtcatcgaa     1080
aagctggtgg gggtcggcca tgcccggctg ggacacaggg atcctccgct tcgaggctgc     1140
aagggaagag agtgagaagg agctggggac ccaggatagg taagggagac ctggcgaacc     1200
tcattcatcc cacagctctg cctcctgctg cagaggaggg tggtgtcacc attagagaca     1260
ctggctttga tgtcagatgg actggcaggt gcaagctctg ccattcatcc accaacccac     1320
ccatctagcc aactatccat ccactgatac attcatctat gcatccattc atctacccac     1380
ccatccatcc cccganttcc nccgcnctgt gctaagntcn gcagcnggga ttcattgggn     1440
gccgcc                                                                 1446
```

```
        <400> 6380
gtgtgtgggg agggtgtata tggagaagga gccccaagaa aggatcagaa cggagaccac      60
tgccacctga tgtttcctgc aggggctgca ctgtgtctct ggctgaggtc acactgacac     120
ctggtggtca ctggtcactc gcagtcttaa atctagtagg gccgaaagta ctagaaggag     180
gttgtccaga gaggtctgcc ctcaaaatgc tcctgaaaga tgcttgctta tgcttttctt     240
taaaaattat ttctggggaa gggcggggag tggtcacagg atcttatatt ctctttattt     300
ttacttaatt tgcatgttat ttttagaact ccccttttta agggtcacat tttgcctcag     360
aaaaccctgt ctgaatgtct cctgtttgtc ggtcaggact gactctgcct tttctttcct     420
tttccatgtg ccactcctgt cctccctttg ccctccctga tttctgcact gtcctctccc     480
acctgtctgt ctcctcttgg ttttgcccgt gtcagcctcc ccttccgtgc cctctccccc     540
ccttgcagaa caagaccgcg aaaggcagcc tcagcacaga gcagtcggag cgggggtgag     600
gggggcagtg tgctcgtggg aatggaaagg acagcaagca caggtgagtc ggggccaccg     660
ggctccctgc atcctgcccg gctcccagca ggcgtcgttg cctctgccct cctgctcgct     720
ctatgctttg ccaccagcat ttcatcctgt ggatgacaac gccaggtgga tgcagtgttc     780
ttccattggt tacttagctc cccagattat ctgtggaaag gagtggggc ttctaaactg      840
tccactgcca atggggtgca gggtgactgt tcctgaaggc agcccttcag ggcacagctg     900
gccaggggtg gccttgtgag tngacacaac aggcttttag gtctctttct tgggcaaggg     960
catctcttgc ca                                                          972
```

<210> 6381
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (785)...(412)
<223> similar to gi4062533 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6381
```
gcgctggtgg gggcaagcga caaacccgat cgtcccagct atcgcgtgat gaaatatcta      60
ctcgaccagg ggtatcacgt cattccggtt tcgccaaaag ttgccggcaa aacgctgctg     120
ggccagaagg ggtatggcac gctggcagac gttccggaaa aagtcgatat ggtcgatgtt     180
ttccgtaatt caaaagcggc gtggggcgtg gcacaggaag ctattgccat tggcgcgaaa     240
actctctgga tgcaactggg ggtgattaat gagcaagcgg cagtactggc acgggatgcc     300
gggttaaatg tggtgatgga tcgctgcccg gctattgaga tccctcgcct gggcctggcc     360
aaataaaaaa tccccggaag gcaaaaacct tccggggatt tgttcaggga ttagttacgc     420
agacgcgggg cctggagttg tttgcggatg gtctgcgcca gctcatccat ggatggctgt     480
tcagggatgt tcatcctgca attcgctact tagctgggct tcagccaggt aggtatgaac     540
cggtaggccg ttatcgtcct ccatcactac gtgataccac ggagcggcgc gaagctcgtc     600
attcaccgcc agctcatcag gcgacggttc agagagcgaa taaaccgggt cgatatccac     660
gaccactccg agataaccta acagggaatg gcggacctgc tggccgatac cgaatttgct     720
ggcaatcata gtcacctccc gggaaatctt tacctttgat ataagggtaa aattccacat     780
ttcaagtttc a                                                          791
```


<210> 6382
<211> 1818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(1708)
<223> similar to gi1006659 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6382
```
tcgattcgaa ttcggcacga gggggaagat ggcggactcg gtggctagcc gatgaggagg      60
ccgcgggggg aacccggccc ccgggccccg agaccgactg agggagcgac ctgcgcaggg     120
cccggggagt catggtctcc atcacccaac tccatgcttc gagtcctgct ctctgctcag     180
acctcccctg ctcggctgtc tggcctgctg ctgatccctc cagtacagcc ctgctgtttg     240
gggcccagca aatgggggga ccggcctgtt ggaggaggcc ccagtgcagg tcctgtgcaa     300
ggactgcagc ggcttctgga acaggcgaag agccctgggg agctgctgcg ctggctgggc     360
cagaacccca gcaaggtgcg cgcccaccac tactcggtgg cgcttcgtcg tctgggccag     420
ctcttggggt ctcggccacg gccccctcct gtggagcagg tcacactgca ggacttgagt     480
```

```
cagctcatca tccgaaactg cccctccttt gacattcaca ccatccacgt gtgtctgcac      540
cttgcagtct tacttggctt tccatctgat ggtcccctgg tgtgtgccct ggaacaggag      600
cgaaggctcc gcctccctcc gaagccacct ccccctttgc agccccttct ccgaggtggg      660
caagggttgg aagctgctct aagctgcccc cgttttctgc ggtatccacg gcagcatctg      720
atcagcagcc tggcagaggc aaggccagag gaactgactc cccacgtgat ggtgctcctg      780
gcccagcacc tggcccggca ccggttgcgg gagccccagc ttctggaagc cattgcccac      840
ttcctggtgg ttcaggaaac gcaactcagc agcaaggtgg tacagaagtt ggtcctgccc      900
tttgggcgac tgaactacct gcccctggaa cagcagttta tgccctgcct tgagaggatc      960
ctggctcggg aagcaggggt ggcacccctg gctacagtca acatcttgat gtcactgtgc     1020
caactgcggt gcctgccctt cagagccctg cactttgttt tttcccctgg cttcatcaac     1080
tacatcagtg gcacccctca tgctctgatt gtgcgtcgct acctctccct gctggacacg     1140
gccgtggagc tggagctccc aggataccgg ggtccccgcc ttccccgaag gcagcaagtg     1200
cccatctttc cccagcctct catcaccgac cgtgcccgct gcaagtacag tcacaaggac     1260
atagtagctg aggggttgcg ccagctgctg ggggaggaga ataccgcca ggacctgact     1320
gtgcctccag gctactgcac agacttcctg ctgtgcgcca gcagctctgg tgctgtgctt     1380
cccgtgagga cccaggaccc cttcctgcca tacccaccaa gggtcctgcc cacagggccc     1440
aggctgcctc tagcgccact actcgagacc cttgcccaga gggtggtgct ggtgttgcgg     1500
gaaacgcctg gcatttcctg ccgggacggc ccgggtgctt ctgggcttcg aggggccctg     1560
agggagcggc acctaggcct gatgggctac cagctcctgc cgctaccctt cgaggaactg     1620
gagtcccaga gaggcctgcc ccagctcaag agctacctga ggcagaagct ccaggccctg     1680
ggcctgcgct gggggcctga aggggctga ggggatgatg tggggttcag gatggccccc     1740
ccatgggggg tggatgattt gcactttggt tccctgtgtt ttgatttctc attaaagttc     1800
ctttccttaa aaaaaaaa                                                   1818
```

```
      <400> 6383
cgtggggaat tcccacgacc cgtgacactc tgtggaccgc gagcacggag cagggtttct       60
acagctgctc cccactttct cggacccggt cctggaccca gcccccgact ccgacacggc      120
tccaccatgg aggaggcgga ccgaatcctc atccattcgc tgcgccaggc cggcacggca      180
gttcctccag atgtgcagac cttgcgcgcc ttcaccactg agctggttgt agaggctgtg      240
gtccgctgcc tgcgtgtgat caaccctgcg gtgggctctg gcctcagccc tctgctgcct      300
cttgccatgt ctgcccggtt ccgcctggcc atgagcctgg ctcaggcctg catggacctg      360
ggctatccct tggagcttgg ctatcagaac ttcctctacc ccagtgagcc tgacctccga      420
gacctgcttc tcttcttggc tgagcgtctg cccaccgatg cctctgagga tgcagaccag      480
cctgcaggtg actcagctat tctcctccgg gccattggga gccaaattcg ggaccagctg      540
gcactgcctt gggtcccgcc ccaccttcgc actcccaagc tgcagcacct ccagggctcg      600
gccctccaga agcctttcca tgccagcagg ctggtcgtgc cagaattgag ttccagaggt      660
gagccacggg agttccaggc gagtcccctg ctgcttccag tccctaccca ggtgcctcag      720
cctgttggaa gggtggcctc gctcctcgaa caccatgccc tgcagctctg ccagcagacg      780
ggccgggacc ggccagggga tgaggactgg gtccaccgga catcccgcct cccacccag      840
```

```
gaggacacac gggctcagcg gcagcggctg caaaagcaac tgactgagca tctgcgccaa    900
agctggggcc tgcttggggc ccccatacaa gcccgggacc tgggagaact gctgcaggcc    960
tggggtgctg gggccaagac tggtgctcct aagggctccc gcttcacgca ctcagagaag   1020
ttcaccttcc atctggagcc ccaggcccag gccactcagg tgtcagatgt gccagccacc   1080
tcccggcggc ctgaacaggt cacgtgggca gctcaggaac aggagctcga gtcccttcgg   1140
gagcagctgg aaggagtgaa ccgcagcatt gaggaggttg aggccgacat gaagaccctg   1200
ggcgtcagct ttgtgcaggc agagtctgag tgccggcaca gcaagctcag tacagcagag   1260
cgtgagcagg ccctgcgcct gaagagccgc gcggtggagc tgctgcccga tgggactgcc   1320
aaccttgcca agctgcagct tgtggtggag aatagtgccc agcgggtcat ccacttggcg   1380
ggtcagtggg agaagcaccg ggtcccactc ctcgctgagt accgccacct ccgaaagctg   1440
caggattgca gagagctgga atcttctcga cggctggcag agatccaaga actgcaccag   1500
agtgtccggg cggctgcttg aagaggcccg caggaaggag gaggtctata aagcagcttg   1560
atgtcagagc tggagactct gcccagagat gtgtcccggc tggcctacac ccagcgcatc   1620
ctggagatcg tgggcaacat ccggaagcag aaggaagaga tcaccaagat cttgtctgat   1680
acgaaggagc ttcagaagga aatcaactcc ctatctggga agctggaccg gacgtttgcg   1740
gtgactgatg agcttgtgtt caaggatgcc aagaaggacg atgctgttcg gaaggcctat   1800
aagtatctag ctgctctgca cgagaactgc agccagctca tccagaccat cgaggacaca   1860
ggcaccatca tgcgggaggt tcgagacctc gaggagcaga tcgagacaga gctgggcaag   1920
aagaccctca gcaacctgga gaagatccgg gaggactacc gagccctccg ccaagagaaa   1980
ccgcttggcc tccttaggcc gggtcccggg aggccctgaa ggaaccgccg gcagaaggtc   2040
tctccccagc ctcaggcagg gatttggggt gctggaggca gtgggccaag cacatgccct   2100
agctacttcc tccgctgtcc agttcctcct gctgcggcct tggacccaga cccctgccca   2160
ctgaccgcaa cccttatatg gggtgatagt ccagcatgtg gggagctcgg ctgcagttta   2220
ttggggacgg tactgtgggt tgggggcctt ggatccacaa ataaatgagt cagttcctct   2280
gcagtctaag ctgaggcatg gatcagggct cagggaatgg gagtgaggtg agtggcaggg   2340
gagacacggg gtattttggg caaggcagtg tgtgtggctg tgtgtgtctg cacgggactc   2400
aagagaccca ctgggggggct gtgcgtgtgc atatgcgtga gatacacagg tgaattctaa   2460
caggccgtgt gtgtgagcga gcacgtgttg ggacctcaga tcctgagggt actgacgctg   2520
cttctgtgta ggcctctggg cacacccctg tgttgacagt gccctgtgg gccctgaggc    2580
ttgctgtggg tgcgtgcctt g                                            2601
```

```
cccacgcgtc cgcgctcgcc tccgggatct cgtgagatca cggccacttc cgggagtcgg     60
aaaggaaagc tgtgggacca tcctggcaac cccggtgttt ggctgggttc tagcgtagcc    120
gtctgtgtgg ccggtggggg acctgcggtc ggagtgggag ggccagtctg cacccaagag    180
gtggaagagg acgggcttta ggctggaagc gccttagagg agccattttt ccagcaggat    240
gcctggtttg cttttatgtg aaccgacaga gctttacaac atcctgaatc aggccacaaa    300
actctccaga ttaacagacc ccaactatct ctgtttattg gatgtccgtt ccaaatggga    360
gtatgacgaa agccatgtga tcactgccct tcgagtgaag aagaaaaata atgaatatct    420
```

```
tctcccggag tctgtggacc tggagtgtgt gaagtactgc gtggtgtatg ataacaacag        480
cagcacccctg gagatactct taaaagatga tgatgatgat tcagactctg atggtgatgg        540
caaagatctt gtgcctcaag cagccattga gtatggcagg atcctgaccc gcctcaccca        600
ccaccccgtc tacatcctga aaggggggcta tgagcgcttc tcaggcacgt accactttct        660
ccggacccag aagatcatct ggatgcctca ggaactggat gcatttcagc catacccccat        720
tgaaatcgtg ccagggaagg tcttcgttgg caatttcagt caagcctgtg accccaagat        780
tcagaaggac ttgaaaatca aagcccatgt caatgtctcc atggatacag ggccctttt        840
tgccaggcga tgctgacaag cttctgcaca tccggataga agattccccg gaagcccaga        900
ttcttcccctt cttacgccac atgtgtcact tcattgaaat tcaccatcac cttggctctg        960
tcattctgat cttttccacc cagggtatca gccgcagttg tgccgccatc atagcctacc       1020
tcatgcatag taacgagcag accttgcaga ggtcctgggc ctatgtcaag aagtgcaaaa       1080
acaacatgtg tccaaatcgg ggattggtga ccagctgct ggaatgggag aagactatcc       1140
ttggagattc catcacaaac atcatggatc cgctctactg atcttctccg aggcccaccg       1200
aagggtactg aagagcctca cctgggggca ttttgtgggt ggagggccag agtgtgtata       1260
cccaggcttg tctggaagga gaaggcctt gctgcctgaa agtcgcaaaa aaaaaa           1316
```

<210> 6385
<211> 2136
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (100)...(997)
<223> similar to gi4406663 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6385
```
gcggccgcgg agacctacct gcggcgtcgg cagctgctgc tccgagatac cggggagacc        60
acgacgctgc ctcctgggcg ccatgagttc ctgttcagct tccagctgcc cccgaccctg       120
gtgacatcct tcgagggcaa acacggtagt gtccgctact gtatcaaggc caccctgcac       180
cggccctggg tcccagcacg ccgggcaagg aaggtgttca ctgtcatcga gcctgtggac       240
atcaacacgc cagccctgct ggcacctcaa gcgggggctc gggaaaaagt tgcccgatcc       300
tggtactgta accgtggcct agtctccctt tcggccaaga tcgaccgcaa gggctacacc       360
ccaggagagg tcatccctgt ctttgccgag atcgacaacg gctccacacg tcctgtgctg       420
cctcgggcag ccgtggtgca gacacagacg ttcatggccc gaggcgcccg aaagcaggaa       480
acgggcagtg gtggccagcc ttcgcgggcg agccggtggg ccccgggcag gcgggcgctg       540
tggcagggcc gggcactgcg gatccccca gtgggtcctt ccatcctgca ctgccgcgtt       600
ctacacgtgg actacgcact caaggtctgt gtggatatcc caggaacgtc caagctgctg       660
ctggagctgc cactggtgat cggcaccatt cccttgcacc cttttggcag ccgttcctcc       720
agcgtgggca gccacgccag cttcctgctg gactggaggc tggggggcctt gccggagcgg       780
cctgaggctc ctcctgagta ctcggaggtg gtagccgaca ctgaggaggc agccttgggg       840
cagagcccct tcccgcttcc gcaggacccc gacatgagcc ttgaaggccc gttcttcgcc       900
tacatccaag agttccgcta ccgcccgcca ccctgtact ctgaggagga tccaaaccca       960
cccttggggg acatgaggcc gcgctgcatg acttgctgaa cggcacaggg accctcgag       1020
gaacaaggtt gcacaccagc tttcagccac catgactgtg gggagtggct ggaccaaggg       1080
ctgacctccc cgactgcatc aaagttgggg aaccaagtct cagagtgagg cgggggcctt       1140
tcggatatca catgggacag aggaagagcc cggctggaat ctgacttatc tggaccgctg       1200
tccttgtgag gcattgaatg cccagtgcag tatccgagag actgtttaat aacctgtctt       1260
cccagccaat tggtggtgct ggaatcccct aggagccttc agtctgggag aaacagagcc       1320
```

```
agacatagac agttccagca tcacagaacc agaagaagag acctgcaact gtgagagtcc    1380
agacaggaag cagagaaggc gtccttgcgg aaagggcatt ttagctgagg ctttggagta    1440
cgaataggag ctcagcaggc agacgaatga ggaataaagg tcagagaagg tcagagctga    1500
gtgacgtttg gaatccaccc cgtttattgt agaactgggg gttcagaggg caggtgcctc    1560
agagttgagg ccacacagtg aggtctggtg ggtgaaagga cccaggaacg aggcgttcag    1620
gaaagcaggt tgtcagagct atgtggagtc tgtgggtggc aggggcagcc gctccagcct    1680
ttgaagactt tgaaagccag agattcctgg cgcaggcttg gacttcctgg gagctcctcc    1740
aagtacccag gggcatcaga gctgcctggg tgttacatgg cccagggaac ccaggttcag    1800
ggtaggacag gcaagaccag atacccaatg tgcaaagtga aaacactggg ctccctgtta    1860
aacgatgaag aattcaagac agtgacagca ttacgtcacc cctggggaca gaggtcagcc    1920
taaggtgaca cacggggact actgtgcttc cggaggctcc ctgtgtcctg gaggagaaaa    1980
gcattagagg gggcagctgg acaagctccc aactgcagag tcccagccct ggctgggggca    2040
gggcccggc ctgggactca gcatttctga tatgccttaa gaattcattc tgttttgtac    2100
aattattttt taaaagtaaa cgtgtggaga aagaaa                              2136
```

<210> 6386
<211> 1705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1665)...(600)
<223> similar to gi5381422 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6386
```
tttttttttt ttctgtaatg aataatattt atgcaggctt gtttctaaa gcaaaacaat    60
attctcaatg tacaaagttt ggccaccatc cccactttaa gatgaactat gtcttaatga    120
cagagatact tgaaacgttg ctcgaaaact ataaactttg ggattctaat agctagaaac    180
aaattgtcag cttttactaa ttccaaagaa gttaagagag aacctcataa gaagagagtt    240
ttattcaaca ttatggcatg gccagttgta attgttccaa caaagggaac ctactttggt    300
gccccgagga aatggctgtt tgtgatgctg gggaaaagtc aagatgctga cgcctaatgg    360
ctgttctagc ctttccaggt ttgtaacatg aagatgggga aggaaatggg caccactgct    420
gtttgtaatc tgaggaactc ttgggcagca ttcactctcc aaaggcagta caaaacttac    480
aaaggaaggt caaaaagtct taacactccc attcccccca ggaactcttg tctgtgtcat    540
ctgggtaggg aggggaggga atccggggtt ccctcagggt ccttgttcat gtttaggctt    600
tttgataggc ttccaatcca actcggctcg cttcagcctt gctgctgggc ctgaatgtaa    660
tagtgtgtgt catcccttag taatcacttt gaagaggttt ccctggacat tcccttttaac   720
cccagtggga acgccattat cttccagagc agacacgagt gaaccacgaa gagaaaaccc    780
acccactggc ctgttctctt ctttggaagg gtcatagtaa tgcaggaaag ctggatcctt    840
ccttagaaca aagcgacgca ccttccagtt tttcctcttg tgtccctgct tggccaggta    900
gccttgtttc accaccgtgc cacttaactc cacagtgctc aggctaattt cttccttggg    960
gcttatcttc tttttgtagc tctcagcaaa agtgtacagg ctgtggagt catccaggaa     1020
ctgctcggcc agatccccag agcgaatggc tcccatgctt cggacaccca caggcctgag    1080
gaagttctcc tccatgagca tggaggccag ggtcaccgcc tccagacggc tggccgtgaa    1140
gctgttggag atgagccagt ccaccaggga ggagccgagg aaggtctttt tataggtgct    1200
tccctgctcc atgttggggc ttgaacggat tccggtgttg ctatcgtgca tcttgtccac    1260
aatgcgatgc aggctgatgt gcgggggcag cttgaaggag tttctcaggc tgtgcagctg    1320
ctggaccttt ccccgggctt gccctgcatg aatagccccg gtgatcttca aaggcccagg    1380
```

```
catcccggct tcctctcgag aacaggcctc caggaagtac tccgtggatg tttgagtctt    1440
cagcttaatg aggagcggtc ggttttcata ctccaggcag gggcaggtga tggtgcagcc    1500
atccaggagg atccggccct tgggaggggt cactctccga ccccctcaa gcttgtagta     1560
caccagcgtg ttctgccgaa ggatgaacca tcgcgccttc cagttgtgga caatgtggcc    1620
cctcttgacc aggaagccct cgttgagcac gccgtcctcc atgtcgccgt ccgcacgcca    1680
gggccacgcc aggtgcgcca cgaaa                                          1705
```

<210> 6387
<211> 2431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2432)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2426)...(548)
<223> similar to gi603560 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6387
```
tttttttttt ttgatgtgac aaacagcatt tattccagac tccagtgtcc acagatgatg     60
gggtgggggcg gaggtagggc gggggcagga gtgggaccag gggctggggt gaggggggggg   120
aatccagtgt cagactctgc agcaagacgt caggtggggg gaccagcagg ggaggcggga    180
agggaaaaat atcctccggc cagccgaccc tcggagccct tgtcccaagg ctgggccttg    240
ggctttgggt ccagggagct attctggggc ctgggagaga cacattttct gtggaggagg    300
aagggcccct tccacccacc caccctccct ccctctcctt ccctcccgga ggcagggcag    360
ccacctgtgg gtccccntcc ttgccggcag aggaaggaag ggagggtttt ggcagggaag    420
agggaaagag ggaaagaggg aaggcgtggg gagtacttgg cgtgagcagg gctggattag    480
atgatgcctg aatgctccac ggtccaggga cagccctta ggaggttctt ggctcagcac      540
tcggcgtccg aagcccccgc tggccacccc tggctcctcc ggaggcacct cccatgagaa    600
gggccggtct gctctggttg ctccgacccc gagtggctca gccctggctc ccctttggcg    660
gcggagcccc cttctcccgc cgctggcggc agcaggggcc ccctttgcgt ctcacgcagt    720
agaagacagc aacgacgagg agcaggaggc ccacgctgac ggccacggcc atgacggcca    780
ctccagcctg ggaggtctgg gggctcacgg tgccgaagtg aagacatgg cgcttgttcc       840
cgtggggggtt ggaggcttca caggagatgc catcgcggct cagggcgctg gtcactttca    900
gggtcagaga gctgctcacc caaccctgcc gtccggggat tggctctgcg gggctgcccc    960
ccaattggct ccagctgagt ttggggtctg gatggccgcg ggcagagcag atgagtgtga    1020
cttcgtctcc ttccctccag ctgccatctg ccttgggctc tatttccgct gtctttagct    1080
ctggcgagcc ttggaccagc agcgtgaagt tctgggtgcg gctgaggacc gggactgtgg    1140
gcagggaggc ctcacatacg taggtgccat tggaatcgaa ggtgatagaa ctgagcgaca    1200
gcatggggcc atcgcccagg ggagtggagt ccttggtcca gcgtagggca ggggtgggca    1260
ggccgtgcac ggagcagttc acgactgccc tgctgtttag aggtaaggaa agcaccttcc    1320
cctcgctgag ctccaggggg tccagatagg ccacgcgcag ctccagcatc ttggagagct    1380
gcacgtcatc tgccgcgtcg taatcctcca ctctgcagcc ataggtcccg ctctggcccc    1440
gggtcactcc ctccagggtc aagttcccct cgagattcac attcagcact tcctcctgct    1500
catcctgaag gcggaaaagc gtatactccg ggctggggct gccgtcccccc cggcagagca    1560
```

```
gctggacagt  gtcaccctcg  cgtacccagc  ctgctggggt  ggacgggctg  cccacccaga     1620
actgcacgtg  ctccgtggga  tagtgcaggg  tgaggtggaa  ggtggggctg  tccaggcggc     1680
cgtggcggcc  ctcgggcagg  ctgtagtggg  cggcgcagtg  gaagctggcg  tctcggtcat     1740
ccttgcggca  cggcaggtag  agggtgctgg  tgagggagag  caggcccgag  gcctcccgga     1800
ccgtgcggct  ggtcatgtag  ccctctgggt  tcatctctac  gggcacctcc  aggcgctgcc     1860
cgttgcgata  ccacgtgatc  ttgggggccg  ggttcccgtt  ccggctgttg  ctggtggcga     1920
tctcctgggc  agagtcctcc  atcacagaca  gtgtcccttt  gttgggggag  acctcagtgg     1980
cctctggctt  tgcaaacacg  ttgagccgcg  cagcggcctc  agcagtgcct  gccgcccctg     2040
ccctcaccac  gcacacgtag  tctcgctcgt  cgcccacctg  ggcctcagcc  agcaccaggc     2100
gcccctggga  gtccagctgg  tatgggggac  tgcggccccg  ggtgtcgtgc  attgtgacct     2160
ggagctcaga  gccctgcatc  tcagccgagg  ctaggcgggg  gcgagctccc  gagcggtcgg     2220
taaggaacca  ttccagcata  taatggtcgt  gggttcccgt  aggggtgcag  tccagaatga     2280
cagactttcc  tcgcatcacc  tccaccagcg  ggggtacaga  caagcgcacc  tccgcctggg     2340
catctgggtg  cgccgccagc  aggactgcga  gcaacagcag  ccgcggggcc  ccgcgcgcct     2400
gggccggtgc  gtccgggggc  tccatgttca  c                                     2431
```

<210> 6388
<211> 2689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1200)...(2609)
<223> similar to gi5419882 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6388
```
gttcccgctg  ggattcccca  tctccaaccc  cgcaggcaag  gacgccgtga  ccttgcaagg       60
catccctgag  ggagcctttg  atgaagtgac  ctcatgcctg  gtgaaggtgc  cagagaagac      120
agaaggtggc  aacaacatgg  ctctggttga  gaatgtcacc  acccttcaga  agagccagga      180
tctgctggag  gcagaaggag  aaaagaagac  catgataaag  aagattatgc  cacacccagc      240
ccaccctggg  catgcgggag  aggtcggagc  tggtgaacgt  gtgtgtgcac  agcgtgttct      300
ccctgccctc  cgtgcaggcg  atgcaggaga  aggacgaggc  caaggctgag  accatccagg      360
ctctttacca  tcagaccctg  gaggccctgc  agacactgct  caaagccctc  tttatcgagg      420
accccactcc  tgctgggctg  aagagcatct  tggaggccct  ggggccttgg  atgaactctg      480
ggaaggccca  tgagcgagca  cgggctgtga  acaccaatgt  ctctgtgttg  aaccacatgc      540
ttctaactct  gcctttcttt  attgcaatac  aaacagatgc  ccttggggtt  cccggcgctg      600
gggcttctgc  tggggagact  catccttcac  attggggatc  ctgatgagga  gattggctgt      660
gaggctctgg  acggcatcat  catcctctac  actattctgg  agctccaaaa  acgagccaga      720
gataaggaag  agaccaacaa  aaaggagcta  tatgagagca  caagcatt  cctgggggccc      780
tacaaccctg  tgagcccgtg  ccagaacatt  ctgcgggtga  tcgaggaatt  tggagacttc      840
ctggggcccc  agcagataaa  ggacctgctg  ctggccgccc  tggaagggct  gaaaggcagc      900
tcagaggctc  cagggaagga  ctccagggag  atgatgcagc  tggcctcgga  ggtcatgctc      960
agctcggtgc  tggagtggta  ccgccacagg  gcgctggagg  tgatcccaga  aatcatgcaa     1020
ggcatctaca  tgcagctgag  ccacatccag  gagcctcggg  cccgccaggt  ggccctgctg     1080
cccgtctccc  tcctggctag  ctccttcatg  accgaggttg  tggtggccct  gctcatgtgc     1140
cccctcccac  tgaacaggca  gccagcggcc  tgtgcgagct  cctgtccgtc  aacagctgca     1200
tgggccgtgt  gaggcgcatc  taccctcagc  tgctcctggc  cctgctcatt  caggtccatt     1260
accacatcgg  cctcaacctg  cctggctgcg  tggctcctcc  caaggacacc  aagaagggtg     1320
```

```
cacagccctc tcccttcgta cctgtgcgct gggtggtgaa agtggtgaaa accctgctac   1380
tgaggatggg ctgctcttat gagaccacgt ttctggagga ccagggtggc tgggagctca   1440
tggagcaggt ggagagccac caccgcggag tggccttgct ggcaagggcc atggtgcagt   1500
actcctgcca ggagctgtgc cgcatcctct acctgctcat cccgctcctg gagcgaggcg   1560
acgagaagca caggatcacg·gccaccgcct tcttcgtgga gctcctccag atggagcagg   1620
tgcgccggat ccccgaggaa tactctctgg ggcggatggc agaaggcctg agccaccacg   1680
accccatcat gaaggtgctg tccattcgag gcctggtcat cctggcccgc aggtctgaga   1740
agaccgccaa ggtgaaggcc ctcctgccct ccatggtgaa gggcctgaag aacatggatg   1800
ggatgctggt ggtggaagcg gtccacaacc tcaaggctgt cttcaagggg cgggaccaga   1860
agctgatgga cagtgcggtc tatgtggaga tgctgcagat cctgctgccg cacttcagcg   1920
acgcacgaga ggacgtgcgc tcctcctgca tcaacctgta tgggaaggtg gtccaaaagc   1980
ttcgggcacc acgcactcag gccatggagg agcagctggt cagcaccttg gtgcccctac   2040
tgctgaccat gcaggagggc aactccaagg taagccagaa gtgtgtgaag accctgttac   2100
gctgttctta cttcatggct tgggagttgc caaaaagagc ttatagccgg aagccctggg   2160
acaaccaaca gcagacagtg gccaaaattt gcaagtgcct tgtgaacacc caccgagaca   2220
gcgccttcat attcctcagc cagagcctgg agtatgccaa gaactcacgg gcctccctcc   2280
ggaagtgctc agtcatgttc atagggtccc tggtcccctg catggagagc ataatgacag   2340
aagatcgtct gaatgaagtg aaagctgctc tggataactt gagacatgac ccagaagcat   2400
cagtgtgcat ctacgcagcc caggtccagg accacatcct ggccagctgc tggcagaact   2460
cctggctgcc gcacgggaac tcatgggtgt gttactcagc caccacccac cgtctggagc   2520
cccagctgtg agaacctgcc cacttcccac cagcggcgct cctggatcat gcaggcactg   2580
ggctcctgga agatgtcctt gaagaagtga cgtccctgag ccccaaaccc tcctcagggt   2640
ggttgagttc cagccatgct ccctataaat gtcatgtggc ttacctctc              2689
```

<210> 6389
<211> 3776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (132)...(2898)
<223> similar to gi3510535 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6389
```
gaattcccca aggctgggcc cagaacacat agtcctaggg taacagtgaa ggggtcgtga    60
ggggacagtg actcccttcc aaccccttct tcatagggac tgttggcaaa caaagaaaat   120
caactgggaa aatgaagacc tgctggaaaa ttccagtttt cttctttgtg tgcagtttcc   180
tggaaccctg ggcatctgca gctgtcaagc gtcgccccag attccctgtc aattccaatt   240
ctaatggtgg aaatgaactc tgtccaaaga tcaggattgg ccaagatgac ttaccagggt   300
ttgatctgat ctctcagttc caggtagata aagcagcatc tagaagagct atccagagag   360
tagtgggatc agctacattg caggtggctt acaagttggg aaataatgta gacttcagga   420
ttccaactag gaatttatat cccagtggac tgcctgaaga atactccttc ttgacgacgt   480
ttcgaatgac tggaagcact ctcaaaaaga actggaacat ttggcagatt caggattcct   540
ctgggaagga gcaagttggc ataaagatta atggccaaac acaatctgtt gtattttcat   600
acaagggact ggatggaagt ctccaaacag cagccttttc gaatttgtcc tccttgtttg   660
attcccagtg gcataagatc atgattggcg tggagaggag tagtgctact ctttttgttg   720
actgcaacag gattgaatct ttacctataa agccaagagg cccaattgac attgatggct   780
ttgctgtgct gggaaaactt gcagataatc ctcaagtttc tgttccattt gaacttcaat   840
```

```
ggatgctgat ccattgtgac cccctgcggc ccaggagaga aacttgccat gagctgccag    900
ccagaataac gcccagccag accaccgacg agagaggtcc cccgggtgag cagggtcctc    960
ccggggcctc cgggcccccc tggagttcca ggcatcgatg gcatcgacgg tgaccgaggt   1020
cctaagggcc ccccgggccc cccgggtcct gcaggtgaac cgggaaagcc aggagctcca   1080
ggcaagcctg gcacacctgg cgctgatgga ttaacaggac ctgatggatc ccctggctcc   1140
attgggtcaa agggacaaaa aggagaacct ggtgtgcctg atcgcgtgg atttccaggc    1200
cgtggtattc ctggaccccc tggtcctcct gggacagcag gactccctgg agagcttggc   1260
cgtgtaggac ctgttggtga ccctgggaga agaggaccac ctggcccccc tggcccccca   1320
ggacccagag gaacaattgg ctttcatgat ggagatccat tgtgtcccaa tgcctgtcca   1380
ccaggtcgct caggatatcc aggcctacca ggcatgaggg gtcataaagg ggctaaagga   1440
gaaattggtg aaccaggaag acaaggacac aagggtgaag aaggtgacca gggagaactc   1500
ggagaagttg gagctcaagg acctccagga gcccagggtt gcgaggcat caccggctta    1560
gttggggaca aagggaaaa aggtgctcgg ggcttagatg gtgaacctgg cctcagggt    1620
cttcctggtg cacctggtga tcaaggacag cgaggacctc caggagaagc aggtcccaaa   1680
ggagatagag gggctgaagg tgctagagga attcctggtc tccctgggcc caaaggagac   1740
acgggtttgc caggtgtgga tggccgtgat gggatccctg gaatgcctgg aacaaagggt   1800
gaaccaggaa aacctgggcc tcctggtgat gcaggattgc aggggttacc aggtgtacct   1860
ggaattcctg gtgcaaaggg tgttgctggt gaaaagggta gcacaggtgc tccagggaag   1920
cctggtcaga tgggaaattc aggcaaaccg ggccaacagg ggcctccagg agaggtggga   1980
ccccgaggac cccaggggct tcctggcagt agaggagaat taggaccagt gggatcccca   2040
ggcctaccag gtaaactggg ttctctgggt agccctggcc tccctggctt gcctgggccc   2100
cctggacttc ctggaatgaa aggtgacagg ggtgtagtcg gtgaaccggg tccaaagggt   2160
gaacagggtg cctctggtga agaaggtgaa gcaggagaaa gggggaact tggagatata   2220
ggattacctg gcccaaaggg atctgcaggt aatcctgggg aacctggctt gagagggcct   2280
gagggaagtc gggggcttcc tggagtggaa ggaccaagag gaccacctgg accccggggt   2340
gtgcagggag aacagggtgc caccggcctg cctggtgtcc agggccctcc gggtagagca   2400
ccgacagatc agcacattaa gcaggttgc atgagagtca tacaagaaca ttttgctgag    2460
atggctgcca gtcttaagcg tccagactca ggtgccactg ggcttcctgg aaggcctggc   2520
cctcctggtc cccccggccc tcctggagag aatggtttcc caggccagat gggaattcgt   2580
ggccttccgg gcattaaggg gccccctggt gctcttggtt tgaggggacc taaaggtgac   2640
ttgggagaaa agggggagcg tggccctcca ggaagaggtc ccaacggttt gcctggagct   2700
ataggtctcc caggtgaccc aggccctgcc agctatggca gaaatggccg agacggtgag   2760
cgaggccccc caggggtggc aggaattcct ggagtgcctg acccccggg acctcctggg    2820
cttccggtt tctgtgagcc agcctcctgc accatgcagg ctggtcagcg agcatttaac    2880
aaagggcctg acccttgaaa ggcttactgc tgcatggctg tctgcatgaa ccacgcctgg   2940
tgaaggagcc tgggtgagaa acaccatcca aagctggggc aaagatgatt accttcagca   3000
tgattacaat gtattacctt cagtatgatt acagaagtcc tacttgacaa tcacatatag   3060
aagaacggtg ctattcagta agttctcttt cctttccctt ggagggaaga cagcagagtc   3120
atcagttaaa aaaaaaaaa agaaaaccaa acacctccct tgaataaatt tatactcctg   3180
ttcccaggat cttgagcttt agtgtgctat acctatgtgt cttatcgtgg gccactgtgc   3240
caataaacaa aaacaactgt ttggtttacc tcagttgcag tagttatttt catttagaag   3300
ttgttctcag attattgttt cagttatata gaggattact agaactagtt atgaagaaac   3360
cccactacat tccaatggaa ttggtgctta aaatctcatc ggatgttgct gttctctgga   3420
gtgataagaa agggctacga tctcccgaaa tgatttcttt acgtcatgta ttggtttcct   3480
tcttcacctt ggaacctttt ggttgaactg gtatgtactt taccccaaac ctgttaatat   3540
tttgagcgct tctatgtgga aagcaaagaa ataattttaa tactctggcg attcataaat   3600
tttattgatg agattattta ttttaaaggt ttgaggtaac atctctggtt gtaccaaaga   3660
agaaataaat atggtttctt aatctcttgc atgttttctt ataataatc atgttcaatg    3720
aaaagaagtt actgagctta tttagataca ttaaacatta cttaactact ggttca       3776
```

5012

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1508)...(560)
<223> similar to gi4929581 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6390
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agagcccagc ccaggagatc cccggtgaat cgtcaagcct gggtcctcgg ggagccggcg   120
ttcctgctga gctgatgttg tacttctgaa ggcctgtgat cgctaactgc accatgaggc   180
agaatgcagg gtgctctcaa ccagctgggg gttggggttc aggctttttt tcatctttcg   240
gccaaggcag acaacaacgg actcatcatc ccacgcgact gagtgacgcg aggcttcaaa   300
cgcaagcacg agtgtttaga atcctgcatt ttcaaaggct cttgcccact gggaactaca   360
tggagaggag attaagaaca acaaccaaaa gaggcagggg gtggggcagg cgtgaggtag   420
gggtggggtg gggatgacag tcaacacagc ttggaccaga agcccatggc gcctggctcc   480
ctggaaaggc acagggcaca gacggatgcc gcctttcttg ctgggacact cctgccacca   540
tccacagctc ccccgtcact ccacgttctt gtacttggtg aacaggttgt aaagaaccct   600
cagggtggat ttgaggtcca agttaaccac gtcttcagga cgagccttgg gtttcttgag   660
gcctccgtcc agcatcagct caaaggcgaa ggacacattg tggaccttct gatcgaagct   720
ttccggagtc aggtagaagt ggtggagagg aacaaagtag tcttccagaa ggcccatgag   780
cagaaccagg tacacgccat ctgcaaactg ggtctccagt tccgtcacct ccaaattcag   840
cttgttcagg tgcttgttca caaaagtgat gagagacttc ttcaccacgc tgagcttatc   900
cggggcgtgg tcgaacagcg tgtcgaaggc atcccgctcg aaccggccca tcatcatctc   960
tgtagttgtg gtcagctcct ccgagatgtg gctggaatgc agcaggcctt cccgtttccg   1020
cacgaccacc acctgcaccg ttacatgctc aggaaggcgg atgggggccc tgaagtgcat   1080
ggccagagag accagcaggt ggaggatggc caccaggttc ttcccgtgaa ttgagtccac   1140
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ctgcagcttc tgtttctgcc ctatttcgga ctgtgtcacc tcagccacat tcagcttgca   1260
ccctgccagt ttttccaaga gcttctgcag cacctggccg tcatacaggt cttcctccag   1320
ctgcttcaca atgatcctct cctccaccag cacgtcatta atccagtcga ggaggacctt   1380
gaccagttcc ttgaacttgg ggtcttcctt ggaagtgggg tcaatcatcg tgcgctcctc   1440
gttctcctca agctgggtgt cttcagggtg aacatccgcc agggcggggg acatcggtga   1500
gttgatggca ttcttgcctt cttcctgcag gtcactcagc caccagctcc tcttcccagc   1560
tggggagggg gcatcgggat ccttcgcttg ggcttaagca ggaacccaaa gacatctctg   1620
ttaaatgagg ttttccaggc ctctgccagg aaatgacagc tttctatgaa ttttccaact   1680
tccatccgta ctcagagggg tgtggtttct tcgtagaagc tgtaatttat cagaataact   1740
aacttcatca ggcacgaagg tcttcttaac agagcagttt ttctaaaaat aagtccagtt   1800
gtacttcagt gaagatctt   1819

    <210> 6391
    <211> 5737
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (4304)...(2359)
    <223> similar to gi4240199 in the genepept database release 114,

5013

Run with FASTXY 3.3t00, default parameters

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        <400> 6391
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caataatgcc actttaagca aaagtctttc agtatttccg ttacacattc tgttaacaag     120
aactcataca ttggtaaaat tcattttaag aaaacttggc aaataacgct ttggcctgta     180
attggcattt ctttctctac ttttccttcc caccatttct tccttttaaa ctacaggatt     240
tatattttaa aatgtttat ttcagaacat taagatagca gttacatttt ttaatattta      300
tattatttta aaatgactct ttaagataca gttttaaacc catgggctag aaatcatacg     360
actgttaatt agccgcatta tttggtctaa cattttttat cattctgaaa ctggatttgt     420
gtaatacatt gataaattca tacaatttgg aagagtcagt tgaagttaca aggacccaat     480
atctgccctc tttcagtgaa tgccggcaaa tctgttattc cattggcaaa atcgtattgc     540
tgctctcctg ttaatctcac atttataaaa ggatcatgag gctgccaagt gctaaaaatg     600
gagatggtct agtaactaga aaactcccca ccccagggag cacacctaca tatctcccta     660
caacctaata atgtgatgtg ttttggaaca cagacattag aacttcatga agttttaact     720
gttgattctt tcccaagcat catcaagtta tgatttaggc aatgtatgat tgaaatgcat     780
tcattcatca tgcataggca caatcacaga aatattgcac aaagtatgtc cctgactgaa     840
aatgagaggt acaaaaacgt atttcactct tcgtaaagaa gtttgtgagg aaatacaact     900
ctgcgatcgt atagacatgt ttcctgataa tacagacatt cacaaacagt agattgcacc     960
acagtgtgta aacatttta gttgcataaa cttctccttg attttcaaag ataatataat     1020
actgtctact aaaattcctt tttgtttcaa ctaagtactc tcacatatat tagtttataa     1080
taatgtttgt tattactttc taaagtgttt tccactcaag gaaaagaagt aaattcctat     1140
gtcagagtaa ccgaggtggt tgaagaatag gtattagcca gagaggtcta gatagtaaaa     1200
tcaaacttca agcctcaaag aagctccatg aacagagagg aatgccaggt gtcacacagc     1260
tttccttcac tctaattcat tcttgactag agcctgtatg cctgattcag agacatttaa     1320
actcttaaag gatttcttat gatcttcact aaatacatta agaagaatgc caaccagcgc     1380
cctttcgtgt actgggacag gtagtcatgt gattaaaaca gggaacacga actctgactt     1440
taaaatgtat tgtagataca aatgctctaa gctaggaaag gtttttcaca cccacagcca     1500
atgatggcag cctttcattc ctcggaaata agccttttt gaggtcattg aaaaaagagt      1560
gcaactgctg cagctcacga tgcaatatct tcatgagccc agagcacata caaatccaaa     1620
gggaactgcc acagtacact gctcattctt ggcaccggaa cagatgaaac acactgtatc     1680
ctgcacatac ctgccagagc aggccacttt cctcttctgt gagatttaga aagctcccc      1740
aaaaggttat cactcccatc accaatacac agaaaatgga ggaaaggctg tttccagttc     1800
tcggccttta aacagctcta aatgtcagta ctccacagtg gcatattaca aagtaataaa     1860
cagtgccaca cttgagggca aaccgcatat tgagctatag aagagctcac tgtgattaag     1920
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tgtgcaaaga gtgggtcttt gtgtgtttga actcccacca cgtaagggca aactcgatat     2100
gcatgctaat gacctacaat tatgaaatga aaaagaaaa atgctgaagg atgccagagt      2160
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cacagcagtt gctgcccaag cctgggtgct cctggtggtc ctgcatctca ccaaggagct     2460
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```

5014

```
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cccacggttc aggagactga tgcactgatt gttttccacc tgagcctgga gctctcctgc    3240
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<210> 6392
<211> 3275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

5015

<400> 6392

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ccgcccccgc ggctcctggc cagaccaccc ctagtccccc ctgccccaag tcgcagccat       180
gaactacctg cggcgccgcc tgtcggacag caactttatg gccaatctgc caaatgggta       240
catgacagac ctgcagcgtc cgcagccgcc cccaccgccg cccggtgccc acagccccgg       300
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ccagccagga cgtgccgcca cccgccaccg ccgctgcagg gggacctccg cacccccagc      2160
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ccaaatctct ccagcacacc tatttcccat cataatttttc caaatcctca agaaaccct      2760
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ccttgggagc ccctcccact tccaggaccc ctcggttccc ccagggaccc cctccccagt      2940
```

```
ttcctgcctc tgacagctgt ctttaaatat gcaaactcca cccatcttcc cagaatcctt    3000
tgcacacgga aggccagtgg tctccgcttc cccacctttg ctgtggtgtc tgtgtctgtg    3060
actgacgtgg cctccttttg tgccgtgctt ggcatatgtg gtcctcgttc atcgtgccgc    3120
ctgtggtgat gcgtgcagtg acgctgttta tgtggtccgc acctccccct gaccttcact    3180
ccttgcctgg actcacccca cccctcagcg gctctgaacc ccaagagaag agtcgggaaa    3240
caaaataaac aagcaaaggc ccagcaaaaa aaaaa                                3275
```

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<210> 6393
<211> 1502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1371)...(770)
<223> similar to gi4929645 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

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<400> 6393
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gcttcagtgt gtggggtgga ggagtgagac tgggtccaca gtgacattat tgctgacctc     180
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ccaagtttta aggcagggag ggggaaataa ctgtacagcc cttttagccc ccagctctgg     300
agtggcagac agcaatgagg ccacatccct ggagctgccc gggggaagtg ggtgaggaac     360
caaagccgtg gtccctgtag agcagctgtg gggaggggag ggccagtccc ctgctcagtc     420
ctgaccacat aagccttggt cacaggtgta ggtggagagg gcactacgg acactgccct      480
aaggtgcagt cctgaggcac ttaggtgggc gcctatctag gccatgcttc tcagttggcc     540
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cagatgaggt gaataatgac tgggtactgg tagttacagc tggacataaa gtagtactgg     720
gagatgtgca gtgagaccag gacaaactgg atcagctgaa tggctgtcat gtgctttttc     780
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atgacatgca cggaagagtt tatcatggca tggaaagagc ccattcctcc cggggcaatc     900
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tccacagggt cacagcgcca ggtataggtg ctcagccagc ccgacatcag gaactcatag    1140
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gactccgtag gggccaggcg ggcaacggcg gagcgctcgg agggagcagg gccagagaga    1440
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gt                                                                    1502
```

<210> 6394
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6394

```
ttttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag    60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc   120
cctgtgggtg gggtggggge tggaacctat gaacattctg caggggccac tgacttctcc   180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg   240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg   300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt   360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac   420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg   480
agggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa   540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct   600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag   660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt   720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac   780
cgcnctgact aatgtcatca gtgnntcaat tnnccccct cccctcg                   827
```


<210> 6395
<211> 1121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (377)...(1076)
<223> similar to gi3170194 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6395

```
ggaattcaat gctgcacaag ctctgagccc tcctggggct gcgaagttcc tctgatggga    60
ggtgtgtggt ggccatccca tccctgtgta agacctgggg aaaccactct tcaaggttca   120
ggaggaggga gggcggcccc cgacccttaa ccagagcgag gttgttgctt tgtgtccaca   180
```

5018

```
gggaccagga gcgaaccatg atgccaggta ggaggggctg actgggccct gcgagcgcgt      240
gcctttcctg ctgggcagag gccctccaca tggggccacg cgggccgggc acaggagggc      300
agtcagatgg gcagggcctg agagcctccc tcctctccct aggtccctaa tcatggactc      360
cccaagagct ggcacccacc agggcccct cgatgcagag acagaggtcg gtgctgaccg       420
ctgcacgtcg actgcctacc aggagcagag gccccaggtg gagcaagttg gcaaacaggc      480
tcctctctcc ccagggctgc cggcaatggg ggggcctggc cccggcccct gtgaggaccc      540
cgcgggtgct gggggagcag gtgcaggggg ctccgagccc ctggtgactg tcaccgtgca      600
gtgcgccttc acagtggccc tgagggcacg aagaggagcc gacctgtcca gcctgcgggc      660
actgctgggc caagccctcc ctcaccaggg cccagcttgg gcaactcagt tacctagccc      720
caggtgagga cgggcactgg gtccccatcc ccgaggagga gtcgctgcag agggcctggc      780
aggacgcagc tgcctgcccc aggggggctgc agctgcagtg caggggagcc gggggtcggc     840
cggtcctcta ccaggtggtg gcccagcaca gctactccgc ccaggggcca gaggacctgg      900
gcttccgaca gggggacacg gtggacgtcc tgtgtgaagt ggaccaggca tggctggagg      960
gccactgtga cggccgcatc ggcatcttcc ccaagtgctt cgtggtcccc gccggccctc     1020
ggatgtcagg agcccccggc cgcctgcccc gatcccagca gggagatcag ccctaatgat     1080
gctgtgtcca tgatgctttt aataaaaaca accccactg c                          1121
```

<210> 6396
<211> 2797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2700)...(174)
<223> similar to gi4588046 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6396
```
tttttttttt ttaaattgaa aggaaacttt tattgagtca tgttttcaaa gcaatctagt       60
tttttaaaaa agttgaagac aagacagaaa aaagaacatg acacctaaga gaatcagaca      120
ggacagacag acgggagcgc ggggggcggg gacagcggct ccgtggaggt ccagatcttc      180
tccatcttgg aagatgaggt cgtcgccaga atcctggtcc agctcctcgt tctctttaag     240
tcttctgctc cactgtcttc tccagcgact ggatgcgcat ctgctccttc ctcaggctgg     300
cctggagggc caacgcttcc gcctgggcct tgctccggac ctgggcgatc tcctcgtttg     360
ccagctgcag cttctcctcc gcgtgggcct tcagggcttg gtacctctgg ccctcctggg     420
tgatccttgc caggtaatcc tccacgcact tcttcagtga ctcttcgttc ttgcggtagc     480
cctcgatcac ctctttctgt ttctcaaaac gcttgaagag gtcggagaag gacttctcca     540
tggagttcag atctgtggta agttggtctt tttcttttag aactttctgg atttcagctt     600
tggaaagttc cttctgcttc tgaacttcct ccatggcctg gtacacaacc tcttcgaacc     660
tgtccatgat cttccccagt tccaggttct tcccgtggag ctcctcacac ctgctcctca     720
gctccggtt ctcctcctgt gtcgccttta ccactgcatc caggtccttc tggctgtact     780
ggagcaggtc cactataggt ccggtggaca ggggtgggcc cccaggcgcg ggaacacctg      840
ggggtgggcc tggcacagga atgtccagtg ctcccaagaa atcgaactcc acaagcttgg      900
cttccgcgg acgtcctgag ggagtctcat ttgcaccgtg catgctgctg gtctcggtgg       960
ccacgggcac tggtctacca ggactgtccc tcaggagggg gtcgaacttg aggtataagg     1020
actgcttcct caaggccgac tccttaaacg aggaagttcc aaactgctcc aggtaatcca     1080
cctccgcgcc cgtgcctaga acctcagcgg ggtctctgaa gctctcctct ttcagctcca     1140
aggcaggctg cccctgctga tgggtgggca ctggctcact gcctggacag cttgtgggaa     1200
gcgaggtgct ggcagagttc aaggctctct ccttgctctc tgctgttggg gtctcggctg     1260
```

```
ccaactgcac cacaggcgtg tcctccgctg aggctgaatg cagctgctgg ctcagacagg    1320
gacctggctc ctccgtggca ggcccagcat gcaactgttc agccgctggc tggcccagcc    1380
tggtctcagg gctttctggg ggctgggcct cactgcaacc agacttggtg tcacctccga    1440
acgggatgaa gtttgggtca tccattttgt cccagtcgag gtggtaagag ccccgagaag    1500
ctggcatggg ggggtcctct cccgctccgc tcctaccgtc gtcctcctcc acctcctgcg    1560
gggccttttg ctgcctcact gctgctttcc tcaagggagg cttgaggccg gacctctctc    1620
ccagtctcct tggtgggggt gcccttttgc tggtggcgcc atcagataca tcaaattcta    1680
gttttcaggt ccgctcctcg aggagctggc catttggcct gcagccactt cttcctgagg    1740
actcagggtc atggccctgc cagccaccag gtggttggtt ggggctgtgc tctcaggagc    1800
agaggtgtgt gcacaggtaa gggtctgagt gccatctgct ggcacggggg tgcccacacc    1860
cgcagggcag cccagggctt cgccaggcag accctgcagg ggtgctcctc cgcaggcttc    1920
cttagggatt gcaccaggag gcgaagtggc cactgctgcg ggagcacaga ccccaccgtg    1980
ccggcattcc tcctcggctc cgtgcggagt ctccgctttg cattcttcct cggctccgtg    2040
cggagtctcc gctttgtgct gggactctgt cctgcaaggg tcttctaggg tctcagaggc    2100
gggtgtcact cttctgtcta aggaatagga acttaaggtt ttcctccacg gcttgctcca    2160
ggactgccca gacactttc ctggagacac catttggttc tcagaacttc ctgggctctg    2220
ggaagagctt gagcagtcca ggtcagccag ggcacctggg ccagactcgc tggagctgcc    2280
actcccaaag gctgggcttg catcccccag gaggtcggtg tcagcctcca ctggtttctg    2340
tagaattcca tgagtagttt tggcatccac ttccttgatg agctgttggt tctctttctg    2400
tgtccagacc gggtgtgagt tttccagtcc aagggtgtca tcctgagtga aaggagcctc    2460
aagtttgctg gccatgctag gacttagaat cctgtgctgt ctgtggatcc ccgcagaggt    2520
gtctgaaaag tcaccttcat agcttttggc caggttcttg ggtggcacat tttctttctg    2580
tgacacacga agaacagacg atcttccggt aacttctggt ggcgaaaaca ggaagtcgca    2640
attttctgta ttttttttcat tgctgacatt tttgtcgttt aagacctgca gactcattct    2700
gcccgcccgc ccgttgccgg gctctgagcc cgcgccgccg ccgccaggaa ggagggggtcc    2760
gcgtctgctc cacgccgggg gccaagcctg gctgcta                              2797
```

<210> 6397
<211> 2413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2414)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (124)...(1406)
<223> similar to gi4454851 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6397
```
cgaagtttcc gaagaagtaa aatagaaaga agacctttt tgaaatgacc tgtgttagtc      60
acctctctca ggatgcgtga ggcggacacg ttgaggccac ctcagctgat ggaagtttcc    120
gctgacatca tctctaccgt tgagttcaac cacacgggag agctgctggc cacaggtgac    180
aagggcggcc gggtcgtcat cttccagcgg gaaccagaga gtaaaaatgc gccccacagc    240
cagggcgaat acgacgtgta cagcactttc cagagccacg agccggagtt tgactatctc    300
aagagcctgg agatagagga gaagatcaac aagatcaagt ggctcccaca gcagaacgcc    360
```

```
gcccactcac  tcctgtccac  caacgataaa  actatcaaat  tatggaagat  taccgaacga      420
gataaaaggc  ccgaaggata  caacctgaag  gatgaagagg  ggaaacttaa  ggacctgtcc      480
acggtgacgt  cactgcaggt  gccagtgctg  aagcccatgg  atctgatggt  ggaggtgagc      540
cctcggagga  tctttgccaa  tggccacacc  taccacatca  actccatctc  cgtcaacagt      600
gactgcgaga  cctacatgtc  ggcggatgac  ctgcgcatca  acctctggca  cctggccatc      660
accgacagga  gcttcacccc  cagacatcgt  ggacatcaag  ccggccaaca  tggaggacct      720
tacggaggtg  atcacagcat  ctgagttcca  tccgcaccac  tgcaacctct  cgtctacag       780
cagcagcaag  ggctccctgc  ggctctgcga  catgcgggca  gctgccctgt  gtgacaagca      840
ttccaagctc  tttgaagagc  ctgaggaccc  cagtaaccgc  tcattcttct  cggaaatcat      900
ctccatccgt  gtccgacgtg  aagttcagcc  acagcgaccg  ctacatgctc  acccgggaac      960
taccttacag  tcaaggtctg  ggacctgaaa  catggaggca  agacccatag  agacctacca     1020
ggtccatgac  taccttcgga  gcaagctctg  ttccctgtac  gagaacgact  gcattttcga     1080
caagtttgaa  tgtgcctgga  acgggagcga  cagcgtcatc  atgaccgggg  ccatacaaca     1140
acttcttccg  catgttcgat  cggaacacca  agcgggacgt  gaccctggga  ggcctcgagg     1200
gaaagcagca  agccccgggc  tgtgctcaag  ccacggcgcg  tgtgcgtggg  gggcaagcgc     1260
cggcgtgatg  acatcagtgt  ggacagcttg  gacttcacca  agaagatcct  gcacacggcc     1320
tggcacccgg  ctgagaacat  cattgccatt  gccgccacca  acaacctgta  catcttccag     1380
gacaaggtaa  actctgacat  gcactaggta  tgtgcagatc  ccggcccctg  ccacccagcc     1440
tcatgcaagt  catccccgac  atgaccttca  cgaccgcaat  gcaaggaggg  gaagaaagtc     1500
acagcactga  tgaggacagc  tgcagaggtg  gcagtgtgtg  dacacaggaa  gtttgggccc     1560
cctccctgcc  ccagctttcc  taggccagaa  ttgtgtttgg  cagtaattgt  ctgtttaaaa     1620
aaataaaaag  gaaaggaagc  gttcaccgcc  acaaatcata  aaatggacat  gactgtggag     1680
tcttacagtt  cagggttctt  tcattcacgt  cccttcctgt  ctcggtctgc  ggtctttacc     1740
acatcaatag  gactttttat  gcgtccgggt  taattttttca  ctccagtgcg  tcctgttgca     1800
gggaccggag  ctgatgggag  ctgcttctcc  cccatgcctc  actggtccca  gatcagggct     1860
ccagggacag  atgatgagtc  tcaaacgagc  cagccagggg  ttcttttggt  tataaatggg     1920
gcaattcgcc  ctgtctcaga  gctgatgacc  tcaccgttgt  tttttggatg  gtgaattcat     1980
gctgagaatt  tgcagatgca  agctcctctc  ctaggtcttc  tgaatgtctt  gaaacatccc     2040
aggtcccagg  tctggtgcgg  tttcccgaga  ggagcggagt  ggggtttgtc  ttctgtgtgc     2100
ctgtgtcctc  atctgattca  cctgccattt  gctgagcctc  tgctgtgtac  caggcgtggt     2160
gctcagccct  agaggcagtt  gacttacccc  ctgcagccct  ccctgccgcc  tcacccttca     2220
gcattcactg  ggcaccttcc  cggagcggac  actgactccc  atgcacgatt  ttttggaatc     2280
ttcctcctga  ctgtgaggtg  ggtgttcatt  catttcctcc  ataaacacca  acttctcgaa     2340
gcgtgcctcg  tgccaagctg  gcgtaatgtg  gttacgatgt  cttcattnnt  caggcnncgg     2400
gcctctgaca  ccc                                                           2413
```

<210> 6398
<211> 1668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (361)...(1647)
<223> similar to gi3021428 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6398
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agcggccgcg  accgccgggg  acgagcttgg  aggaaaagga  accgggagcc  gcccacccgg       60
gggcgctctc  cggaccccca  gggtcctagc  gcgcggccct  taccgagcct  gggcgcccgg      120
```

5021

```
atttcggcag cggatcgcct ttccgggttg gcggcccgcc tgattgggaa cagccggccg     180
gttgccgggg gaacgcggga gtcgggcccg acctgagcca cgcgggcttg gtgcccacct     240
gtgcgcgccg cctgcgaaga aggaacggtc tagggagaag gcgccgccgg ccgcccccgt     300
ccccaccgcg gccgtcgctg gagagttcga gccgcctagc gccctggag ctccccaacc      360
atgaagccca acttctccct gcgactgcgg atcttcaacc tcaactgctg gggcattccg     420
tacttgagca agcaccgggc cgaccgcatg aggcgcctgg agactttct gaaccaggag      480
agcttcgacc tggctttgct ggaggaggtg tggagtgagc aggacttcca gtacctgaga     540
cagaagctgt cacctaccta cccagctgca caccacttcc ggagcggaat cattggcagt     600
ggcctctgtg tcttctccaa acatccaatc caggagctta cccagcacat ctacactctc     660
aatggctacc cctacatgat ccatcatggt gactggttca gtgggaaggc tgtggggctg     720
ctggtgctcc atctaagtgg catggtgctc aacgcctatg tgacccatct ccatgccgaa     780
tacaatcgac agaaggacat ctacctagca catcgtgtgg cccaagcttg ggaattggcc     840
cagttcatcc accacacatc caagaaggca gacgtggttc tgttgtgtgg agacctcaac     900
atgcacccag aagacctggg ctgctgcctg ctgaaggagt ggacagggct tcatgatgcc     960
tatcttgaaa ctcgggactt caagggctct gaggaaggca acacaatggt acccaagaac    1020
tgctacgtca gccagcagga gctgaagcca tttccctttg gtgtccgcat tgactacgtg    1080
ctttacaagg cagtttctgg gttttacatc tcctgtaaga gttttgaaac cactacaggc    1140
tttgaccctc acaggggcac cccctctct gatcatgaag ccctgatggc tactctgttt     1200
gtgaggcaca gcccccaca gcagaacccc agctctaccc acggacccag cagagaggtc      1260
gccgttgatt gtgtgtgctt aaaggaggcc ttggacggga gcttgggtct gggcatggct    1320
tcaggctcgc tggtgggcca accttcgcat agctatgtga ttggcctggg gctgcattct    1380
cctggcactg ctgtgtgtcc tggcggctgg aggaggggcc ggggaagctg ccatactgct    1440
ctggaccccc agtgtagggc tggtgctgtg ggcaggtgca ttctacctct tccacgtaca    1500
ggaggtcaat ggcttatata gggcccaggc tgagctccag catgtgctag gaagggcaag    1560
ggaggcccag gatctgggcc cagagcctca gctctatgcc ctactctctg gggcagcagg    1620
aggggggacag aactaaagaa caataaagct tggcccttta aaaaaaaa               1668
```

        <400> 6399
```
gggcaattcc ggaatcctag gcgcggatct cgcgtttccg gccggaaggc ttctccagcc      60
tttcccggaa gctgcgctcg ctaccgggt aacgggtccc ggctgtggaa gctcccgcgg      120
cgccgcgatg gacctcgagg agtcggaaga gtttaaagaa cgctgtactc agtgtgctgc     180
tgtctcatgg ggtcttactg atgaaggcaa atattattgc acttcttgcc acaatgttac     240
agagagatat caggaagtta caaacactga tcttattcct aatacccaaa taaaagccct     300
caaccggggg cttaaaaaaa aaaacaatac tgaaaaaggc tgggattggt atgtgtgtga     360
aggtttccag tatattcttt atcaacaagc agaagcctta agaaccttg gagtaggccc      420
agagttaaag aacgatgttt tacataattt ttggaagcgc taccttcaga agagcaagca     480
ggcatattgt aagaacccag tttataccac tggaaggaaa cctacggtat tagaagataa     540
tctaagtcat tcagactggg ctagtgagcc tgagctgcta agtgatgtca gctgtcctcc     600
ttttcttgaa agtggagcgg agtctcagtc tgacatccac actcgaaaac ctttcccccgt     660
```

```
cagcaaagca tcacaatcag aaacgtctgt ctgctctgga tctctggatg gagttgaata      720
ctcacaacga aaggagaagg gaatcgtgaa gatgaccatg ccacagacac ttgccttctg      780
ttatctgtcc ttactttggc agagagaagc aataacactt tcagatcttt tgaggtttgt      840
tgaagaggac catattcctt acataaatgc ttttcagcat tttccagaac agatgaaatt      900
atatggacgt gacagaggaa·tctttggtat agagtcttgg cctgactacg aggacatcta      960
taaaaaaaca atagaagttg gaacattttt agatttgcct cgttttccag acataactga     1020
agactgctat cttcatccca acatactgtg tatgaaatac ttgatggaag tcaacctccc     1080
tgatgaaatg catagcttaa cttgccacgt ggtaaaaatg actggaatgg gagaagtgga     1140
ttttctgaca tttgatccta tagccaaaat ggcaaaagct gttaagtacg atgtacaagc     1200
tgtagctatc attgtggtgg tattgaaact gctctttcta atggatgaca gtttcgagtg     1260
gtctttgtct aatcttgctg aaaagcataa tgaaaagaac aaaaaagata agccatggtt     1320
tgatttcaga aagtggtacc aaattatgaa gaaagctttt gatgagaaaa aacaaaaatg     1380
ggaagaagca agggccaagt acctgtggaa aagtgaaaag ccactctact actcatttgt     1440
cgacaaacca gtagcatata aaaaaagaga aatggtggtg aatctacaga aacaatttag     1500
cacactggtc gattcaacag caactgctgg aaaaaaaagc ccttcaagtt ttcagttcaa     1560
ctggactgaa gaggacactg atagaacgtg tttccatgga cacagccttc agggagtcct     1620
gaaagagaaa ggccaatcac tgctgactaa gaattcatta tattggctta gtacacagaa     1680
attctgcaga tggtaataat gcttttagaa aaagtcacat ataattga               1728



        <210> 6400
        <211> 3397
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (247)...(3195)
        <223> similar to gi2224531 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 6400
        ggaattcgca cccccaagtt ctgtgactcc ccgaccagtg acctggaaat gcgcaatggc       60
        cggggtagag gcaaacgcat gcgtcccaac agtaatacac ctgtcaatga gacagccaca      120
        gcctctgaca gcaaagggac cagtaacagc agcaaaaccc gggcaggagc caatagcaaa      180
        ggccgtcggg gcagccagaa ttcttcagag caccgcccac ctgccagcag cacttctgag      240
        gatgtcaagg ccagcccttc ctcagctaat aagcggaaaa acaaacccct ttcagacatg      300
        gagctgaatt ctagctcaga ggactccaaa gggagcaagc gtgtccgtac taattccatg      360
        ggctcagcca ctggcccccct tcctgggaca aaggtagaac ccactgttct ggacagaaac      420
        tgcccctccc ccgtcctaat tgactgtccc cacccaaact gcaacaagaa gtacaagcac      480
        atcaatggac ttaagtacca ccaagctcat gcccatacag atgatgacag caagccggaa      540
        gcggatgggg acagtgagta cggagaggaa cctattctcc atgcagatct tgggagctgc      600
        aacggtggca tctgtctcac aaaaaaggtt ccttgtcccc tgcccgctca gctaccccca      660
        aagttcgact tgtagagccc catagccctt ctccttcaag caaattcagc acaaaaggcc      720
        tctgtaagaa aaagttgagt ggggaagggg acacagacct tggggcctta tccaatgatg      780
        gctctgatga tggaccctca gtgatggatg aaacaagcaa tgatgccttt gattctttag      840
        aaaggaagtg tatggaaaaa gaaaaatgta aaaaccctc tagtttaaaa cctgaaaaga      900
        ttccttccaa gagcctaaag tcagcccgtc ccattggccc ctggccatcc ccccacagca      960
        aatctacacc ttccagacag ccaccttcac agcagcgagc ccaggctctt cctcaggctt     1020
        gaccgccaca gtggcacaag ccatgcccaa cagtccccaa ctcaagccca ttcagcccaa     1080
        gcccactgtt atgggagaac ctttcacagt caaccctgcc ttgactccag ccaaggacaa     1140
```

5023

```
gaaaaagaaa gacaaaaaaa agaaggaatc ttcaaaggaa cttgaaagtc ctctgacccc    1200
tgggaaggtg tgtcgagcag aggaaggcaa aagcccattc agggaatctt caggaaatgg    1260
gatgaaaatg gaggggctcc taaatggctc atcagacccc caccaaagcc gactggctag    1320
catcaaggct gaagccgaca agatctacag tttcacggac aatgcccca gcccttccat     1380
tggaggcagt agccgccttg aaaacactac ccctactcag cccctgactc ccttacatgt    1440
ggtgacccag aatggagctg aagccagctc agtcaaaacc aacagccctg catactctga    1500
catctctgat gctggggagg atggggaggg caaggtagac agtgtcaaat caaaggacgc    1560
cgaacagttg gttaaagaag gggctaagaa aactcttttt cccctcagc ctcagagcaa     1620
agactcacca tattaccaag gctttgagag ttactattct ccaagttatg cacagtccag    1680
ccctggggct ctgaaccca gcagccaggc aggagtggag agccaggccc tgaagacaaa      1740
aagggatgag gaacctgaga gcatagaagg gaaagtgaag aacgatatct gtgaagaaaa     1800
gaagcccgag ctgagcagtt ccagtcagca gccctcggtc atccagcagc gtcccaatat     1860
gtacatgcag tccctgtact acaaccagta tgcctatgta ccccctatg gctacagcga      1920
ccagagttac cacacccacc ttctgagcac taacacggct taccggcagc agtacgaaga    1980
acagcagaaa cgccagagct tagagcagca gcagcgggga gtggacaaga aggcagagat    2040
gggcctgaag gagcgggagg cagcactcaa ggaagagtgg aagcaaaagc cgtcaattcc    2100
accaactctc accaaggccc ccagcctgac agacctggtg aaatcaggac ctggcaaggc    2160
caaggagcca ggggctgacc cagccaaatc agtcatcatt cccaagttag atgactcttc    2220
aaaactcccg ggccaggccc ctgaaggcct taaagtgaag ctgagtgatg ccagccacct    2280
aagcaaggag gcctctgagg ccaagacagg tgctgagtgt ggtcgacagg cagagatgga    2340
tccaatactc tggtaccgac aggaggcaga gccccggatg tggacatatg tttatcctgc    2400
caagtactca gacatcaagt cagaggatga gcggtggaag gaggagcggg accgcaaatt    2460
gaaggaggaa aggagtcgga gtaaggactc tgtccccaag gaagatggga aggaaagcac    2520
aagtagtgac tgcaagctgc ccacgtcaga ggagtctcgc cttgggagca aggagccccg    2580
gccaagtgtc catgtgcctg tgtcctcccc acttacccag caccagtcct acatccccta    2640
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gcctgctgtg atgatgcaga actacccagg ttcctacctg ccttccagct actctttttc    2760
cccatatggc agcaaggtct caggtggtga agatgctgac aaggcacgag ccagccccag    2820
tgtgacttgt aaatccagct cagagtccaa agccctggac atcttgcagc agcatgccag    2880
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tgaacggagt gttgaccggc cccgcaccctc tccttcccag cgcctgatgt ccacacacca   3060
ccaccaccac cacttggggt actcattgct cccagcacag tacaacttac cctatgcagc    3120
agggctttct tctacagcca ttgttgccag ccaacaaggc tcaactccct cactctaccc    3180
accccccagg aggtgagaat gacaccaagt gcccggataa agtcagcttc acgggcccgg    3240
actggcttac ccaaggaggt gctgaaggtg ccgtttagac atcagttaaa tggtgttgat    3300
catcctgttt gccgtttcca ccatgactga aggcagaccc ttggctatct cacctccacc    3360
aagacctccg ggactacctg accctacctc ttcctca                            3397
```

5024

<400> 6401

```
tggggcgacc cacgcgtccg ggccggagac agagacttca cgactcccag tctcctcctc    60
gccgcggccg ccgcctcctc cttctctcct cctcctcttc ctcctcctcc ctcgctccca   120
cagccatgtc tgcttagacc agagcagccc cacagccaac tagggcagct gccgccgcca   180
caacagcaag gacagccgct gccgccgccc gtgagcgatg acaggagtgt ttgacagaag   240
ggtccccagc atccgatccg gcgacttcca agctccgttc cagacgtccg cagctatgca   300
ccatccgtct caggaatcgc caactttgcc cgagtcttca gctaccgatt ctgactacta   360
cagccctacg gggggagccc cgcacggcta ctgctctcct acctcggctt cctatgggca   420
aagctctcaa cccctaccag tatcagtatc acggcgtgaa cggctccgcc gggagctacc   480
cagccaaagc ttatgccgac tatagctacg ctagctccta ccaccagtac ggcggcgcct   540
acaaccgcgt cccaagcgcc accaaccagc cagagaaaga agtgaccgag cccgaggtga   600
gaatggtgaa tggcaaacca aagaaagttc gtaaacccag gactatttat tccagctttc   660
agctggccgc attacagaga aggtttcaga agactcagta cctcgccttg ccggaacgcg   720
ccgagctggc cgcctcgctg ggattgacac aaacacaggt gaaaatctgg tttcagaaca   780
aaagatccaa gatcaagaag atcatgaaaa acggggagat gccccggag cacagtccca   840
gctccagcga cccaatggcg tgtaactcgc cgcagtctcc agcggtgtgg gagccccagg   900
gctcgtcccg ctcgctcagc caccaccctc atgcccaccc tccgacctcc aaccagtccc   960
cagcgtccag ctacctggag aactctgcat cctggtacac aagtgcagcc agctcaatca  1020
attcccacct gccgccgccg ggctccttac agcacccgct ggcgctggcc tccgggacac  1080
tctattagat gggctgctct ctcttactct cttttttggg actactgtgt tttgctgttc  1140
tagaaaatca taaagaaagg aattcatatg gggaagttcg gaaaactgaa aaagattcat  1200
gtgtaaagct tttttttgca tgtaagttat tgcatttcaa aagacccccc ctttttttac  1260
agaggacttt ttttgcgcaa ctgtggacac tttcaatggt gccttgaaat ctatgacctc  1320
aactttcaa aagacttttt tcaatgttat tttagccatg taaataagtg tagatagagg  1380
aattaaactg tatattctgg ataaataaaa ttatttcgac catgaaaagc gg          1432
```

<210> 6402
<211> 1428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (305)...(1251)
<223> similar to gi4929679 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6402

```
cccgcttctc gctggagtgc gcaccgagcg gcagtgactt cgccgctgct gtagttcccc    60
ggctggatgc ggtgactggt gccagtgctc aggcgccgc tgcccttgac ctcccgcccc   120
gcgagcccta actcagcgca ggaggaccgg ctgccgccgc cgccgccgcc agcagagcca   180
agcacagtgg gaactttcag aaagcactgg ttgaaggaac gctggaatcc ctgggactta   240
ctgcgtagca tgtagtagtt gctcctctac aaaagtttca ccttatgaag tatagcaggc   300
tctgatgctg gtgtctggta gaagaagatt actcacagct ctgctgcagg ctcagaagtg   360
gcccttcaa ccctccagag acatgagact agtgcagttc cgggcacccc acctggtggg   420
gcctcacttg ggcctggaga cagggaatgg tggaggggtt atcaacctca atgcctttga   480
ccccacactc ccaaagacga tgacgcagtt cctagagcag ggagaggcca ccctctcagt   540
ggcaagaaga gccttggctg cccagttgcc agtcctacca tggtcggagg taaccttcct   600
ggctccagtc acatggccag ataaggtggt gtgtgtgggc atgaattatg tggaccactg   660
caaagaacag aacgtgcccg tgcccaagga gcccatcatc ttcagcaagt ttgccagctc   720
```

5025

```
catcgtggggg ccctatgatg aggtggtcct cccaccacag agccaggagg tagattggga    780
agtggagctg gccgtggtca ttggaaagaa aggcaagcac atcaaggcca cagatgccat    840
ggcccacgtg gccggcttca ctgtggctca tgacgtgagt gctcgtgact ggctaacaag    900
acgcaatggg aaacagtggc tgctgggaaa aaccttcgac accttctgcc ctctgggccc    960
tgccttggtg accaaggaca gtgtagcaga tccacacaac ttaaagatct gctgccgagt   1020
gaatggggaa gtcgtcccag agcagcaaca ccaaccagat ggtattcaag acagaggacc   1080
tgatagcctg ggtctcccag tttgttacct tttacccagg ggatgtcatc ctaactggga   1140
cccccccagg tgtcggtgta ttcaggaaac ctcctgtctt tctcaagaag ggggatgaag   1200
tccagtgtga gattgaagaa ctaggtgtca tcatcaacaa ggtggtgtga tggctcctgc   1260
acaggcccga cataggatga gggcatctgc tcccactcag cctagcccag ggaaaggccc   1320
agtggcaggt gtgggcaggt gccagccctg caagccgcct cttctcggta gaagggagaa   1380
ggacagagct ctcttcaata aatgcgtcgg gtcaaagcaa aaaaaaaa               1428
```

<210> 6403
<211> 3380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(3065)
<223> similar to gi3811347 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6403
```
ctgataccc agcttggcac ggggacgcag ccatggcgga ggcggctttg gaagccgtgc     60
ggagcgagtt acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc    120
cctacctgga caaaccccca actccgctcc acttctaccg ggactgggtc tgccccaaca    180
ggccgtgcat tatccgcaac gctctgcagc actggccggc cctccagaag tggtccctcc    240
cctatttcag agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt    300
acgcggatgc cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga    360
gcttcgtgct ggatgtgctg gagggccggg cccagcaccc tggagtcctc tatgtgcaga    420
agcagtgctc caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg    480
tgccctgggc ctccgaagcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg    540
aggcggctgc agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct    600
caggagagaa gcatttcctg ttccatccgc ccagcgaccg gcccttcatc ccctatgagc    660
tgtacacgcc ggcaacctac cagctaactg aagagggcac ctttaaggtg gtggatgaag    720
aggccatgga gaaggcagag gtgtccagga cctgcctgct cacggttcgt gtcctgcagg    780
cccatcgcct accctctaag gacctagtga cccctctga ctgctacgtg actctctggc    840
tgcccacggc ctgcagccac aggctccaga cacgcacggt caagaacagc agtagccctg    900
tctggaacca gagctttcac ttcaggatcc acaggcagct caagaatgtc atggaactga    960
aagtctttga ccaggacctg gtgaccggag atgaccctgt gttgtcagta ctgtttgatg   1020
cggggactct gcgggctggg gagttccggc gcgagagctt ctcactgagc cctcagggtg   1080
aggggcgcct ggtaagttga atttcgcctg cagagtctgg ctgaccgtgg cgagtggctc   1140
gtcagcaatg gcgttctggt ggcccgggag ctctcctgct tgcacgttca actggaggag   1200
acaggagacc agaagtcctc agagcacaga gttcagcttg tggttcctgg tcctgtgag   1260
ggtccgcagg aggcctctgt gggcactggc accttccgct tccactgccc agcctgctgg   1320
gagcaggagc tgagtattcg cctgcaggat gcccccgagg agcaactaaa ggcgccactg   1380
agtgccctgc cctctggtca agtggtgagg cttgtcttcc ccacgtccca ggagccccctg   1440
atgagagtgg agctgaaaaa agaagcagga ctgagggagc tggccgtgcg actgggcttc   1500
```

```
gggccctgtg cagaggagca ggccttcctg agcaggagga agcaggtggt ggccgcggcc      1560
ttgaggcagg ccctgcagct ggatggagac ctgcaggagg atgagatccc agtggtagct      1620
attatggcca ctggtggtgg gatccgggca atgacttccc tgtatgggca gctggctggc      1680
ctgaaggagc tgggcctctt ggattgcgtc tcctacatca ccggggcctc gggctccacc      1740
tgggccttgg ccaaccttta tgaggaccca gagtggtctc agaaggacct ggcagggccc      1800
actgagttgc tgaagaccca ggtgaccaag aacaagctgg gtgtgctggc ccccagccag      1860
ctgcagcggt accggcagga gctggccgag cgtgcccgct tgggctaccc aagctgcttc      1920
accaacctgt gggccctcat caacgaggcg ctgctgcatg atgagcccca tgatcacaag      1980
ctctcagatc aacggggagg ccctgagtca tggccagaac cctctgccca tctactgtgc      2040
cctcaacacc aaagggcaga gcttgaccac ttttgaattt ggggagtggt gcgagttctc      2100
tccctacgag gtcggcttcc ccaagtacgg ggccttcaat cccctctgag ctctttggct      2160
ccgagttctt tatggggcag ctgatgaaga ggcttcctga gtcccgcatc tgcttctttta     2220
gaaggtatct ggagcaacct gtatgcagcc aacctccagg gacagcttat actgggcctc      2280
agagcccagc caattctggg gaccgctggg gtcaaggaac caggccaacc tgggacaagg      2340
agcaggtccc ccttctgaag atagaagaac caccctcaac agccggcaga atagctgagt      2400
ttttcaccga tcttctgacg tggcgtccac tggcccaggc cacacataat ttcctgcgtg      2460
gcctccattt ccacaaagac tactttcagc atcctcactt ctccacatgg aaagctacca      2520
ctctggatgg gctccccaac cagctgacac cctcggagcc ccacctgtgc ctgctggatg      2580
ttggctacct catcaatacc agctgcctgc ccctcctgca gcccactcgg acgtggacc       2640
tcatcctgtc attggactac aacctccacg gagccttcca gcagttgcag ctcctgggcc      2700
ggttctgcca ggagcagggg atcccgttcc cacccatctc gcccagcccc gaagagcagc      2760
tccagcctcg ggagtgccac accttctccg accccacctg ccccggagcc cctgcggtgc      2820
tgcactttcc tctggtcagc gactccttcc gggagtactc ggccctggg gtccggcgga       2880
cacccgagga ggcggcagct ggggaggtga acctgtcttc atcggactct ccctaccact      2940
acacgaaggt gacctacagc caggaggacg tggacaagct gctgcacctg acacattaca      3000
atgtctgcaa caaccaggag cagctgctgg aggctctgcg ccccaggcag tgcaaacgga      3060
aggcggcagc gcaaggcccc cactgatggc cggggcccct gcccacccc taactctcat       3120
tcattcccct ggctgctgag ttgcaggtgg gaactgtcat tcacgcagtg cttcagagcc      3180
tcgggctcag gtggcactgt cccagggtcc aggctgaggg ctgggagctc ccttgcgcct      3240
cagcagtttg cagtggggta aggaggccaa gcccatttgt gtaatcaccc aaaaccccc      3300
ggcctgtgcc tgttttccct tctgcgctac cttgagtagt tggagcactt gatacatcac      3360
agactcatac aaaaaaaaaa                                                  3380
```


<210> 6404
<211> 1879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (303)...(1301)
<223> similar to gi3334739 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6404
```
gggctcacgt tgtacgttca catcaggtcc cggcccgccg gaacctgggc gatccacgat        60
gccgagtttg ccacgctgcg acagcccata ggcttgcccc cccgggcatt cgggtggact       120
acgaacacaa actgaagccc taggacttgt cgcccgtttg cgctctcgcc gaggcacagg       180
ctgctcgcgg accaccctgc tccgaaaacc taagaggtag gtggtagccc attcatctgg       240
ttactgatac tggccggcat cagtggactt gtcggcaggt ccttgagcaa ctggtgtgtg       300
```

5027

```
aaatgggacg gacgtcaaaa ggacaagccg ggatgtctac taccggcctt ggccaaggag    360
aatggctggc gtgcttcgca gcgcctttca aactgcttac aattggataa ggaatttcca    420
actgtttcca aggccttgac acgggcagtt gacctgtgtg cagccccagg cagctggagc    480
caggtgctga gccagaagat cggggggccaa gggtccggcc acgtggtggc tgtggacctg    540
caggctatgg ctccactacc aggtgtggta cagatccagg gggacatcac ccagctgtcc    600
actgccaagg agatcatcca gcactttaag ggctgccctg cggacctagt ggtgtgtgac    660
ggggctcctg atgtaaccgg tctccatgat gttgatgagt atatgcaggc ccagctcctc    720
ctagctgctc tgaacattgc tacacatgtc ctgaagccag ggggctgctt tgtggccaag    780
atattccgag ccgggatgt gacgctcctc tacagccagc tgcaggtctt cttctccagc    840
gtgctgtgtg ccaagcccag gagcagccgg aactctagca tcgaggcctt cgctgtctgt    900
cagggctatg accctcccga gggcttcatc ccggacctga gcaaaccccct gctggaccat    960
tcttacgacc cagatttcaa ccagctggat ggtcccaccc gcatcattgt gccttttgtg   1020
acctgtgggg acctgagctc ctatgattcg gaccgcagtt acccactgga cctagagggc   1080
ggctcagagt acaagtacac tccacccaca cagccccccca tctcgccacc ataccaggag   1140
gcctgcacgt tgaagaggaa ggggcagctg gccaaggaga tccgccccca ggactgcccc   1200
atcagcagag tggacacgtt tccccagccc ctggccgccc ctcagtgcca caccctgctg   1260
gcccctgaga tggaagacaa tgaaatgagt tgttcacctt aacccattac gctggcaaac   1320
tgatacaact cagaaactgc tcaatgtcag gaaaaccgga acttgttgat gaacttgttt   1380
tcaaaatatc atctcatcaa cgaggcctgg acaaacaagc cctgaggagg gatctgcaac   1440
aaccctgaag acaacaagga aagaaaccat gaaagtctgt ctgtactgca gtgggaattc   1500
ttgagtgagg tcttacctct tctttaaacc tcttcaggag tgtcctgatt atgtccagaa   1560
ttttcccctaa aggcagggat tcttaacctg gatagaagcc aggggtaacc atgaacttga   1620
tggaagaaaa tgttacatct ttattttcag caatgaaact gaaatttagc cttactccca   1680
agttataaat gctggcaaca aatcacagta gtaaaagcag tacctgggat tttcccacca   1740
atacaaacca gttacagcaa ctgtaatgta acataaaaag ggcatcttga agtattgttc   1800
atatttgtca cctcttggaa tgatagcaga tcctgtaagt tgatgtatta attaaaaagc   1860
ccatatatta ctgcatctc                                                 1879
```


<210> 6405
<211> 2021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (232)...(1564)
<223> similar to gi1297274 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6405
```
ttctgttgtg acgcggctgc atgaattcag cacgaggatt ccgtgggtgg tggtgcatgg     60
ccgttcttag ttggtggagc gatttgtctg gttaattccg ataacgaacg agactctggc    120
atgctaacta gttacgcgac ccccgagcgg tcggcgtccc ccaacttctt agagggacaa    180
gtggcgttca gccacccgag attgagcaat aacaggtctg tgacgcccag tatgagggag    240
atcgtgcaca tccaggccgg ccagtgcggc aaccagatcg gggccaagtt ctgggaagtc    300
atcagtgatg agcatggcat cgaccccagc ggcaactacg tgggcgactc ggacttgcag    360
ctggagcgga tcagcgtcta ctacaacgag gcctcttctc acaagtacgt gcctcgagcc    420
attctggtgg acctggaacc cggaaccatg gacagtgtcc gctcaggggc ctttggacat    480
ctcttcaggc ctgacaattt catctttggt cagagtgggg ccggcaacaa ctgggccaag    540
ggtcactaca cggaggggggc ggagctggtg gattcggtcc tggatgtggt gcggaaggag    600
```

5028

```
tgtgaaaact gcgactgcct gcagggcttc cagctgaccc actcgctggg gggcggcacg    660
ggctccggca tgggcacgtt gctcatcagc aaggtgcgtg aggagtatcc cgaccgcatc    720
atgaacacct tcagcgtcgt gccctcaccc aaggtgtcag acacggtggt ggagccctac    780
aacgccacgc tgtccatcca ccagctggtg gagaacacgg atgagaccta ctgcatcgac    840
aacgaggcgc tctacgacat ctgcttccgc accctcaagc tggccacgcc cacctacggg    900
gacctcaacc acctggtatc ggccaccatg agcggagtca ccacctcctt gcgcttcccg    960
ggccagctca acgctgacct gcgcaagctg gccgtcaaca tggtgcccct cccgcgcctg   1020
cacttcttca tgcccggctt cgcccccctc cagcccggg gcagccagca gtaccgggcc   1080
ctgaccgtgc ccgagctcac ccagcagatg ttcgatgcca agaacatgat ggccgcctgc   1140
gacccgcgcc acggccgcta cctgacggtg gccaccgtgt ccgcgggcc gcatgtccat   1200
gaaggaggtg gacgagcaga tgctggccat ccagagcaag aacagcagct acttcgtgga   1260
gtggattccc aacaacgtga aggtggccgt gtgcgacatc ccgccccgcg gcctgaagat   1320
ggcctccacc ttcatcggca acagcacggc catccaggag ctgttcaagc gcatctccga   1380
gcagttctca gccatgttcc ggcgcaaggc cttcctgcac tggttcacgg gtgagggcat   1440
ggatgaaatg gagttcaccg aggcggagag caacatgaac gacctggtat ccgagtacca   1500
gcagtaccag gatgccaccg ccaatgacgg ggaggaagct tttgaggatg aggaagagga   1560
gatcgatgga tagtcggaat agagccgccc caactcagat cctacaacac gcaagttcct   1620
tcttgaaccc tggtgcctcc taccctatgg ccctgaatgg tgcactggtt taattgtgtt   1680
ggtgtcggcc cctcacaaat gcagccaagt catgtaatta gtcatctgga acaaagacta   1740
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ctagaggact tgaaagagaa ctgaggggcc acaaaataaa cttcaccttc cattaagtgt   1860
tcaagcatgt ctgcaaatta ggaggagtt agaaacagtc tttttcatcc tttgtgatga   1920
agcctgaaat tgtgccgtgt tgccttatat gaatatgcag tatgggactt tgaaataatg   1980
attcataata aaatactaaa cgtgtgtctt caaaaaaaaa a   2021
```

<210> 6406
<211> 1483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)...(1378)
<223> similar to gi202212 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6406
```
gcggcacgga ggagctcaac atgcgtgagt gtatctctat ccacgtgggg caggcaggag     60
tccagatcgg caatgcctgc tgggaactgt actgcctgga acatggaatt cagcccgatg    120
gtcagatgcc aagtgataaa accattggtg gtggggacga ctccttcaac acgttcttca    180
gtgagactgg agctggcaag cacgtgccca gagcagtgtt tgtggacctg agcccactg    240
tggtcgatga agtgcgcaca gggacctaca ggcagctctt ccacccagag cagctgatca    300
ccgggaagga agatgcagcc agtaattacg ccaggggcca ttacaccatc ggcaaggaga    360
ttgttgacct agtcctggac cggatccgca aactggcgga tctgtgcaca ggactgcagg    420
gcttcctcat cttccacagc tttgggggcg gcactggctc tgggttcgca tctctgctca    480
tggagcggct ctcagtggat tacagcaaga agtccaagct agagtttgcc atttacccag    540
ccccccaggt ctccacagcc gtggtggagc cctacaactc catcctgacc acccacacga    600
ccctggaaca ttctgactgt gccttcatgg tcgacaatga agccatctat gacatatgtc    660
ggcgcaacct ggacattgaa cgtcccacgt acaccaacct caatcgcctg attgggcaga    720
tcgtgtcctc catcacggcc tccctgcgat ttgatggggc cctgaatgtg gacttgacgg    780
```

5029
```

```
aattccagac caacctagtg ccgtaccccg gaatccaatt tccccatggc acacttacgc      840
cccaatcatc tcagctgaga aggcctacca cgagcagctg tctgtggccg atatcaccaa      900
tgcctgcttc gagccagcca atcaaatggt caagtgtgac cctcgccacg gcaagtacat      960
ggcctgctgc atgttgtaca ggggggacgt gggtccccaa agacgtcaac gcggccatcg     1020
ccaccatcaa gaccaagcgc accatccagt ttgtggattg gtgcccgact ggatttaagg     1080
tgggcattaa ctaccagccc cccacagtgg tccccggggg agacctggcc aaggtgcagc     1140
gggccgtgtg catgctgagc aacaccacgg ccattgcgga ggcctgggcc cgcctggacc     1200
ataagttcga tctcatgtat gccaagcggg cctttgtgca ctggtacgtg ggagaaggca     1260
tggaagaggg agagttctct gaggcccgcg aggacctggc agctctagag aaggattatg     1320
aagaggtggg cgtggattcc gtggaagctg aggctgaaga aggcgaagaa tactgagggg     1380
agggtgtggt gggttctcca ctccactgcc acccccatgc gtggctgctt tcaagttctt     1440
tgcaattaaa ggttctgtat aaaaccaaga aaaaaaaaa aaa                        1483
```

<210> 6407
<211> 4427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (88)...(3811)
<223> similar to gi3327162 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6407
```
agagaccgtg ctggagttcg ccctgccgga aagcagcacg ccgccgcggc attttacgac       60
gtcggcggtg acaggccctg ggactctggg aatacccagc ttcctccccg caacccggtg      120
aaagccaacg caatgttcgg tgcgggggac gaggacgaca ccgatttcct ctcgccgagc      180
ggcggtgcca gattggcctc acttttggga ctggatcagg cagctgctgg ccatggaaat      240
gaattttttcc agtacacagc cccaaaacag cctaagaaag gccagggaac ggcagcaaca      300
ggaaatcagg caacaccaaa aacagcacca gccaccatga gcactcccac aatactggtc      360
gcaacagcag tccatgcata tcgatacaca aatggtcaat atgtaaagca gggcaaattt      420
ggtgctgcag ttctggggaa ccacacaacc agagagtata ggattcttct ttatatcagt      480
caacaacagc cagttacggt tgctaggatt catgtgaact ttgagctaat ggttcggccc      540
aataactata gcaccttta tgatgaccag agacagaact ggtccatcat gtttgagtcg      600
gaaaaggctg ctgtggagtt caataagcag gtgtgcattg ctaagtgcaa cagtacctct      660
tccctggatg cagtgctctc ccaggacctc attgtggcag acggccctgc tgtagaagtt      720
ggagattctt tggaagtggc ctataccggc tggctctttc agaatcatgt gctgggccag      780
gttttcgact ccactgctaa caaagataag ttgcttcgct tgaagttagg atcaggaaaa      840
gtcatcaagg ctgggagga tggaatgctg ggcatgaaaa aaggaggaaa gcgattgctt      900
attgtccctc cagcctgtgc tgttggctca gaaggggtaa taggctggac tcaagcaacg      960
gactcgatcc tggtgttcga ggtggaggtt aggcgggtga agattgccaa agattctggc     1020
tctgatggtc acagtgttag ttcccgcgat tctgcagctc cgtctcccat tcctggtgct     1080
gacaacctct ctgctgatcc tgttgtgtca ccaccacat caataccttt caaatcaggg     1140
gagccagctc ttcgtaccaa atctaactcc ctcagtgaac aacttgcaat aaatacaagt     1200
cccgatgcag tcaaagccaa gttgatctct cggatggcta aaatgggcca gcccatgctg     1260
cccatccttc caccacagct ggattccaat gattcagaaa tcgaagatgt gaacactctg     1320
caaggaggtg ggcagcctgt ggtgactccg tccgtccagc cctctcttca gccggccat     1380
ccagcgttac cacagatgac ctcacaggca cctcagccat ctgttactgg gctccaggca     1440
ccttctgctg ccttaatgca agtgtcatct ctcgattccc actcagctgt atctggaaat     1500
```

5030

```
gcccaatcct ttcagcccta tgcaggtatg caagcctacg cttatcccca ggcatctgcc    1560
gtcacctccc agctgcagcc cgttcggcct ttgtacccag caccgctctc tcagcctccc    1620
catttccaag gatcaggtga tatggcttca tttctcatga ctgaagcccg gcaacataac    1680
actgaaattc gaatggcagt cagcaaagtg gctgataaaa tggatcatct catgactaag    1740
gttgaagagt tacagaaaca tagtgctggc aattccatgc ttattcctag catgtcagtt    1800
acaatggaaa caagcatgat tatgagcaac atccagcgaa tcattcagga aaatgaaaga    1860
ttgaagcaag agatccttga aaagagcaat cggatagaag aacagaatga caagattagt    1920
gaactaattg aacgaaatca gaggtatgtt gagcagagta acctgatgat ggagaagagg    1980
aacaactcac ttcagacagc cacagaaaac acacaggcaa gagtattgca tgctgaacaa    2040
gagaaggcca aggtgacaga ggagttagca gcggccactg cacaggtctc tcatctgcag    2100
ctgaaaatga ctgctcacca aaaaaaggaa acagagctgc agatgcagct gacagaaagc    2160
ctgaaggaga cagatcttct caggggccag ctcaccaaag tgcaggcaaa gctctcagag    2220
ctccaagaaa cctctgagca agcacagtcc aaattcaaaa gtgaaaagca gaaccggaaa    2280
caactggaac tcaaggtgac atccctggag gaggaactga ctgaccttcg agttgagaag    2340
gagtccttgg aaaagaacct ctcagaaagg aaaaagaagt cagctcaaga gcgttctcag    2400
gccgaggagg agatagatga aattcgcaag tcataccagg aggaattgga caaacttcga    2460
cagctcttga aaaagactcg agtgtccaca gaccaagcag ctgcagagca gctgtcttta    2520
gtacaggctg agctacagac ccagtgggaa gcaaaatgtg aacatttgtt ggcctccgcc    2580
aaggatgagc acctgcagca gtaccaggag gtgtgcgcac agagagatgc ctaccagcag    2640
aagctggtac aacttcagga aaagtctgtt tgttttgcag tgtttagccc tccaggccca    2700
aatcacagct ctcaccaagc aaaatgaaca gcacatcaag gaactagaga agaacaagtc    2760
ccagatgtct ggggttgaag ctgctgcatc tgacccctca gagaaggtca agaagatcat    2820
gaaccaggtg ttccagtcct tacggagaga gtttgagctg gaggaatctt acaatggcag    2880
gaccattctg gaaccatca tgaatacgat caagatggtg actcttcagc tgttaaacca    2940
acaggagcaa gagaaggaag agagcagcag tgaagaagaa gaagaaaaag cagaagagcg    3000
gccacgaaga ccttcccagg agcagtcagc ctcagccagt tctgggcagc ctcaagcacc    3060
cctgaatagg gagaggccag agtcccccat ggtgccctca gagcaggtgg tcgaggaagc    3120
tgtcccgttg cctcctcagg ccctcaccac ttcccaggat ggacacagaa ggaaagggga    3180
ctcagaagct gaggcactct cagagataaa agatggttcc cttccacccg aactgtcttg    3240
catcccatcc cacagagttc tagggccccc gacttcaatt ccacctgagc ccctaggccc    3300
tgtatccatg gactctgagt gtgaggagtc acttgctgcc agcccaatgg cagctaaagc    3360
ccgacaaccc atcagggaaa ggtctgtgtc agggaagtag caccagatgg cccactacaa    3420
gaaagctcca caagactgtc cctgacttca ggaccccgag gagggggacc cactggcctt    3480
agggcctgaa agcccaggag agcctcagcc tccacagctc aagaaagatg atgtcactag    3540
ctccaccggt ccccacaagg agctgtcaag cacagaggca ggttccacag ttgcaggagc    3600
agccctcaga cccagccatc attcccagcg ttccagtctc tctggggatg aagaggatga    3660
actgtttaaa ggggcaactc tgaaagctct gaggcccaaa gcacagcctg aggaggagga    3720
tgaagacgag gtgagcatga agggacgccc gcccccaacg cccctttttg gagatgatga    3780
tgatgacgat gacattgact ggctgggatg aagacccagg aaactggtgc aaaggtttct    3840
ctgcaaccct tccctaagca tgattttgca cagccaaccc tgggtctagg cgagccacag    3900
ggtgaggtca aggtgagcat tctgggaaca atatttgggc tcagagggtg ggttggccca    3960
ccttctgagc cccaccccg ccagacctgg tgaagaggat cataaccctg tcttcaagaa    4020
cactgggatt tcagcagcaa gttggaagaa ggactggtag gttccctcc aagccagtca    4080
cctgtaagag tcctgtcctc tgccagactt tttaatctct tcattaactc tcagactgac    4140
ctgggagccc tcctctacct gaatccagtg ctcaactgtg ccccggcaac aagacctggg    4200
ctgaggtctc cctggtagaa ctaagggaga ttacaccatc taaatcccag tgcagtcaac    4260
agcctggcct atagtcctgg gacatgtatc ttcttctttg ccttaaatct gatacaagag    4320
gtcaatgact ttgaaaataa aactaaaata aatgtctata atgaaacttg acccaagccc    4380
ttggagaaaa attgagtttg gttccaaggg ctgtctgtgc tcttttg                  4427
```


<210> 6408
<211> 1376
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1377)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1103)...(45)
<223> similar to gi2564956 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6408
```
tttttttttt ttcctctttt aaggtttaac ttttaatcag ccaaacatct tgcgcagacc    60
ctgagccagc cctgcatcct ggttcttccc ctgaatgacc accttcccca gttcctcctg   120
ggctgcccgg tttttgggac ctatcgccag caccttcttg aggtcagcag ttgctttttc   180
caggttccca agggcagcct gggcaacccc cgcttcggta taaggccttt aaatggccag   240
gctcccgctc caacacccgg tcacagctct gggctgccaa ctgaggctgc cctagcaaca   300
actgacaggc agccagattg gcatgaagga cagttcgttc tggagggcca cggtgggggt   360
aaagtcagga gcagccgaag agcccgtcc atagcatcgg gcagctcctt acaggggttc   420
ccagctcgaa ataggtttct gtgccccttg gcacggttct tccttgggca ggggcttcct   480
tctcgctagt ctccagcttc caggaggtct cggccttgag tgaaggatgc cagtgtgagc   540
ctgacaggag gtccagagtg gcccaggcag ctgaagctct gcttcctcac cttgacacat   600
ggactccaag catttctcta tgagctcccc ccaagtttcc tccctccatg gccctacgcc   660
catagttagc tctgtccagc cctctggcgg ccctgatccg aaaggaaacc ccaaagccag   720
tacccggcag caggagccta gtttgggttt gtccaagcca tggccacgga ttacgatctt   780
cttgacaaag ctcccatcgg ggcagtacca gagatcagaa gcttgaaggg cctctggcat   840
ctgactggtt gatccatgag acttatgaga gtctccttca agttcagcaa ccagtttttc   900
agctccttga gtatgctcta gaatttggct ggctggatct gggcttactt ccagctcaag   960
cgtttcggta ggagggtctc ggggctgctg cctaatctga ataactgaat caaggttctc  1020
ccgaaggttc ttttcccact cttgttgcgg ctgagaggtg tccttttctc caattgtatt  1080
gactggtggc gtctccatat ggatgcttag tcccttccac ggtgagtgaa cagttttggt  1140
cagaaaggga tgaaccaggt tcaggtcagc acctgaaaag aaaaccaaac aatgctaata  1200
gcagggttct tatttagact ccttttctcgt cctttcccat tcttctgaga cccaggcccc  1260
tagtcctgaa agtccccagt tttgctttcc tccaaaaatc tgctccagct tccccgttcc  1320
acccncgaat tccncggctc ttcgctacgn tctcaggttc tcaggttntg tggcca       1376
```


<210> 6409
<211> 5615
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (66)...(5509)
<223> similar to gi4071058 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6409

```
tttcgtgcgg cccggagcgc ggtggcgcgg cgcgggaggg gttttctggt gcgtcctggt      60
ccaccatggc caaaccaaca agcaaagatt caggcttgaa ggagaagttt aagattctgt     120
tgggactggg aacaccgagg ccaaatccca ggtctgcaga gggtaaacag acggagttta     180
tcatcaccgc ggaaatactg agagaactga gcatggaatg tggcctcaac aatcgcatcc     240
ggatgatagg gcagatttgt gaagtcgcaa aaaccaagaa atttgaagag cacgcagtgg     300
aagcactctg gaaggcggtc gcggatctgt tgcagccgga gcggccgctg gaggcccggc     360
acgcggtgct ggctctgctg aaggccatcg tgcaggggca gggcgagcgt ttgggggtcc     420
tcagagccct cttctttaag gtcatccaag gaattaccct tccaacgaaa gaccttcacg     480
aaaaggctgg aggttttcaa ggccctcaca gacaatggga gacacatcac ctacttggag     540
gaagagctgg ctgactttgt cctgcagtgg atggatgttg gcttgtcctc ggaattcctt     600
ctggtgctgg tgaactttgg tcaaattcaa taagcttgtt accctcgacg aagtacaatc     660
gcaaaggaat gggttcaaga tgatctgtct gcttgtgcgt ccggaccgcg tcctcttgtg     720
gacatagagg tctccctggc aggtgctgga cgccgtggtc tgctacaact gcctgccggc     780
tgagagcctc ccgctgttca tcgttaccct ctgtcgcacc atcaacgtca aggagctctg     840
cgagccttgc tggaagctga tgcggaacct ccttggcacc cacctgggcc acagcgccat     900
ctacaacatg tgccacctca tggaggacag agcctacatg gaggacgcgc ccctgctgag     960
aggagccgtg ttttttgtgg gcatggctct ctggggagcc caccggctct attctctcag    1020
gaactcgccg acatctgtgt tgccatcatt ttaccaggcc atggcatgtc cgaacgaggt    1080
ggtgtcctat gagatcgtct tgtccatcac caggctcatc aagaagtata ggaaggagct    1140
ccaggtggtg gcgtgggaca ttctgctgaa catcatcgaa cggctccttc agcagctcca    1200
gaccttggac agcccggagc tcaggaccat cgtccatgac ctgttgacca cggtggagga    1260
gctgtgtgac cagaacgagt ccacgggtc tcaggagaga tactttgaac tggtggagag    1320
atgtgcggac cagaggcctg agtcctccct cctgaacctg atctcctata gagcgcagtc    1380
catccacccg gccaaggacg ctggattca gaacctgcag gcgctgatgg agagattctt    1440
caggagcgag tcccgaggcg ccgtgcgcat caaggtgctg gacgtgctgt cctttgtgct    1500
gctcatcaac aggcagttct atgaggagga gctgattaac tcagtggtca tctcgcagct    1560
ctcccacatc cccgaggata aagaccacca ggtccgaaag ctggccaccc agttgctggt    1620
ggacctggca gagggctgcc acacacacca cttcaacagc ctgctggaca tcatcgagaa    1680
ggtgatggcc cgctccctct ccccacccc ggagctggaa gaaagggatg tggccgcata    1740
ctcggcctcc ttggaggatg tgaagacagc cgtcctgggg cttctggtca tccttcagac    1800
caagctgtac accctgcctg caagccacgc cacgcgtgtg tatgagatgc tggtcagcca    1860
cattcagctc cactacaagc acagctacac cctgccaatc gcgagcagca tccggctgca    1920
ggccttttga cttcctggtt gctgctgcgg gccgactcac tgcaccgcct gggcctgccc    1980
aacaaggatg gagtcgtgcg gttcagcccc tactgcgtct gcgactacat ggagccagag    2040
agaggctctg agaagaagac cagcggcccc ctttctcctc ccacagggcc tcctggcccg    2100
gcgcctgcag gccccgccgt gcggctgggg tccgtgccct actccctgct cttccgcgtc    2160
ctgctgcagt gcttgaagca ggagtctgac tggaaggtgc tgaagctggt tctgggcagg    2220
ctgcctgagt ccctgcgcta taaagtgctc atctttactt ccccttgcag tgtggaccag    2280
ctgtgctctg ctctctgctc catgctttca ggcccaaaga cactggagcg ctccgaggc    2340
gccccagaag gcttctccag aactgacttg cacctggccg tggttccagg ctgacagca    2400
ttaatctctt accataacta cctggacaaa accaaacagc gcgagatggt ctactgcctg    2460
gagcagggcc tcatccaccg ctgtgccagc cagtgcgtcg tggccttgtc catctgcagc    2520
gtggagatgc ctgacatcat catcaaggcg ctgcctgttc tggtggtgaa gctcacgcac    2580
atctcagcca cagccagcat ggccgtccca ctgctggagt cctgtccac tctggccagg    2640
ctgccgcacc tctacaggaa ctttgccgcg gagcagtatg ccagtgtgtt cgccatctcc    2700
ctgccggaca ccaacccctc caagtttaat cagtacatcg tgtgtctggc catcacgtc    2760
atagccatgt ggttcatcag gtgccgcctg cccttccgga aggattttgt cccttcatc    2820
actaaggcgc ctgcggtcca atgtcctctt gtcttttgat gacacccccg agaaggacag    2880
cttcagggcc cggagtacta gtctcaacga gagacccaag agtctgagga tagccagacc    2940
ccccaaacaa ggcttgaata actctccacc cgtgaaagaa ttcaaggaga gctctgcagc    3000
cgaggccttc cggtccgca gcatcagtgt gtctgaacat gtggtccgca gcaggataca    3060
gacgtccctc accagtgcca gcttggggtc tgcagatgag aactccgtgg cccaggctga    3120
cgatagcctg aaaaacctcc acctggagct cacggaaacc tgtctggaca tgatggctcg    3180
atacgtcttc tccaacttca cggctgtccc gaagaggtct cctgtgggcg agttcctcct    3240
```

5033

```
agcgggtggc aggaccaaaa cctggctggt tgggaacaag cttgtcactg tgacgacaag    3300
cgtgggaacc gggacccggt cgttactagg cctggactcg ggggagctgc agtccggccc    3360
ggagtcgagc tccagccccg gggtgcatgt gagacagacc aaggaggcgc cggccaagct    3420
ggagtcccag gctgggcagc aggtgtcccg tggggcccgg gatcgggtcc gttccatgtc    3480
ggggggccat ggtcttcgag ttggcgccct ggacgtgccg gcctcccagt tcctgggcag    3540
tgccacttct ccaggaccac ggactgcacc agccgcgaaa cctgagaagg cctcagctgg    3600
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caagagagta gagagggacg ccttaaagag cagagccaca gcctccaatg cagagaaagt    4560
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cgagtcaaac aagccaatcc tgctgcccaa tgagtcacag tcctttgagc ggtcggtgca    4680
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ggagttcctg acgggcctgg gccggctcat cgagctgaag gactgccagc cggacaaggt    4860
gtacctggga ggcctggacg tgtgtggtga ggacggccag ttcacctact gctggcacga    4920
tgacatcatg caagccgtct tccacatcgc caccctgatg cccaccaagg acgtggacaa    4980
gcaccgctgc gacaagaagc gccacctggg caacgacttt gtgtccattg tctacaatga    5040
ctccggtgag gacttcaagc ttggcaccat caagggccag ttcaactttg tccacgtgat    5100
cgtcacccCg ctggactacg agtgcaacct ggtgtccctg cagtgcagga aagacatgga    5160
gggccttgtg gacaccagcg tggccaagat cgtgtctgac cgcaacctgc ccttcgtggc    5220
ccgccagatg gccctgcacg caaatatggc ctcacaggtg catcatagcc gctccaaccc    5280
caccgatatc taccccctcca agtggattgc ccggctccgc cacatcaagc ggctccgcca    5340
gcggatctgc gaggaagccg cctactccaa ccccagccta cctctggtgc accctccgtc    5400
ccatagcaaa gccccctgcac agactccagc cgagcccaca cctggctatg aggtgggcca    5460
gcggaagcgc ctcatctcct cggtggagga cttcaccgag tttgtgtgag gccggggccc    5520
tccctcctgc actggccttg gacggtattg cctgtcagtg aaataaataa agtcctgacc    5580
ccagtgcaca gacatagagg cacagaaaaa aaaaa                                5615
```

```
tttcgtggcg aaggcagcgg caggtcggga gcaagatggc gctgcggcca ggagctggtt    60
ctggtggcgg cggggccgcg ggagctggcg cggggtccgc cggggggaggc ggcttcatgt   120
ttcctgttgc aggtgggata agaccccctc aagcaggcct gatgccgatg cagcaacaag   180
gatttcctat ggtctctgtc atgcagccta atatgcaagg cattatggga atgaattaca   240
gctctcagat gtcccaagga cctattgcta tgcaggcagg aataccaatg ggaccaatgc   300
cagcagcggg aatgccttac ctaggacaag caccCttcct gggcatgcgt cctccaggcc   360
cacagtacac tccagacatg cagaagcagt ttgccgaaga gcagcagaaa cgatttgaac   420
agcagcaaaa actcttagaa gaagaaagaa aaagacgcca gtttgaagag cagaagcaaa   480
agctcagact tttgagcagt gtgaaaccca agacaggaga gaagagtaga gatgatgctt   540
tggaagccat aaaaggaaat ttagatgggt tttccagaga tgcaaaaatg caccctactc   600
cagcatcgca ccccaagaaa ccaggccctt ccttggagga gaagttccta gtatcttgtg   660
atataagtac atctgggcag gaacaaatta aattaaatac ttctgaagtt ggccacaaag   720
ccctaggccc aggttccagt aagaagtatc ccagtttaat ggccagtaac ggggttgctg   780
tagatggatg tgtaagtggt accaccactg cagaggcaga aaatacttca gatcaaaacc   840
tgtcaattga agagagtggt gtgggagtat ttccctcaca ggatcctgct cagcccagaa   900
tgcctccttg gatttacaat gagagtttgg ttccagatgc ctataagaaa atcttagaaa   960
ccacaatgac tccaactgga atagatactg ccaaactgta tcccattctg atgtcatctg  1020
ggcttcccag ggaaactctt ggacagatat gggccttagc taatcgaact acacctggca  1080
aacttacaaa agaagaactt tataccgttc tagccatgat agcggtaaca cagaggggcg  1140
ttcctgcaat gagtcctgat gctttaaacc agttcccagc agctcctatt ccaactttaa  1200
gtggctttc tatgactctg cctacaccgg tgagtcagcc aactgtgata ccttcaggtc  1260
ctgcgggctc catgcccctc agccttggac agccagtcat gggcattaac cttgttggac  1320
cagtgggtgg agctgcagcc caggcttcta gtggtttcat accaacctac cctgcaaatc  1380
aggtagtaaa gccagaagaa gatgacttcc aggattttca agatgcttct aagtcaggat  1440
cccttgatga ctcattcagt gatttccaag agttgcctgc ttcttcaaaa acaagtaact  1500
cccagcatgg aaacagtgcc ccttctttgt tgatgccact tcctggaact aaagcattgc  1560
cttcaatgga caaatatgct gtgtttaaag gaattcagct gacaagtcct ctgaaaatac  1620
tgttccacct ggagatcctg gtgataaata tagtgctttc agagaacttg aacagacagc  1680
agagaataaa cctttaggag aaagctttgc agaattcaga tctgcaggaa ctgatgatgg  1740
tttcaccgat tttaaaacag ccgatagtgt atcaccacta gagccaccaa caaaagacaa  1800
aacttttcca ccatccttcc cctcaggaac tatacaacag aaacaacaaa cacaagtgaa  1860
aaaccctctg aacttagcag acctagatat gttttcctca gttaattgca gcagcgagaa  1920
accattgtct ttttcagctg tgtttagcac atcaaaatca gtttctacac cacagtcaac  1980
aggttctgct gctactatga cagcattggc agcaacaaaa acttctagtt tggctgatga  2040
ttttggagaa ttcagccttt ttggggaata ttctggtcta gcacctgttg gggagcagga  2100
tgactttgca gattttatgg ctttcagtaa tagctctatt tcatctgagc aaaagccgga  2160
tgacaaatat gatgccctta aagaggaagc cagtcctgtt cctctaacca gcaacgtggg  2220
cagcacagtg aagggtggac aaaactcgac tgctgcgtct accaagtacg atgtcttcag  2280
acaactttct ctggaagggt ctggactagg tgttgaagac ctgaaagata cactccttc   2340
aggaaaaagt gatgatgatt ttgctgactt ccactccagt aaattttctt ccataaactc  2400
ggacaaatcc ctgggagaga aagcagtggc tttcagacac accaaagaag actctgcatc  2460
agtgaagtcc ttagatctcc cttccattgg tggcagcagt gttggcaagg aggactctga  2520
agatgcactc tctgttcagt ttgacatgaa attggctgat gtgggaggag atcttaagca  2580
tgtcatgtct gatagctctt ggatttaccc aacagttagt ggccagcatc ctcctgctgc  2640
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cacacttaca agctatgact ggtcagacag ggatgatgca actcagggca gaaaactctc  2760
tccatttgtc ctctcagcag gaagtggatc cccctcagcc acctcaattc ttcaaaagaa  2820
agagacttca tttggcagtt ctgaaaacat caccatgaca tctctctcca agtaacgac   2880
ctttgtaagt gaagatgctc ttccagagac caccttccca gctcttgcca gttttaaaga  2940
cacgattcct cagaccagtg agcaaaagga atatgaaaac agagactata aagatttcac  3000
aaaacaggac ctgcctacgg ctgaacggag ccaggaggcc acgtgtccca gcccagcgtc  3060
cagtggtgcc tctcaagaaa ccccgaacga atgttcggat gactttggag agtttcaaag  3120
tgaaaagccc aaaatcagca aatttgactt cttagtagcc acttcacaaa gcaaaatgaa  3180
atccagtgaa gaaatgatca aaagtgagct ggcaaccttt gacctttctg ttcaaggatc  3240
```

```
acacaagagg agtttgagcc ttggtgataa agaaataagc cgttcttctc cttctccagc    3300
tttggagcag cctttcagag accgttccaa tactctgaat gagaagcccg ccctgcccgt    3360
catccgagac aagtacaaag acctgacggg agaggtggag gaaaatgaga gatatgcata    3420
tgaatggcag agatgcctgg ggagtgccct gaatgtcatt aagaaggcaa atgatacctt    3480
aaatggaatc agtagtagtt ctgtttgcac agaagtaatt cagtcagctc aaggcatgga    3540
atatttatta ggtgttgttg aagtgtacag ggtaaccaag cgtgtggagc tggggataaa    3600
agccactgca gtgtgcagtg agaaactcca gcagttgctg aaggacatcg ataaagtatg    3660
gaataaccta atcggcttca tgtcactcgc cacactcaca ccagatgaaa actcgctgga    3720
ttttttcctcc tgtatgttac ggcctgggat taaaaatgct caggagcttg cctgtggagt    3780
gtgcctcttg aatgtggact cgaggagccg gaaagaagag aagcctgcag aagaacatcc    3840
taaaaaagca ttcaactcag aaacagacag tttcaagctg gcctatggag ggcaccagta    3900
tcacgccagc tgtgccaact tctggatcaa ctgtgtcgaa ccaaagcctc ctggcctcgt    3960
cctgcctgac ctgctctgaa caactcctct gtgaagcatt gacttttttt ttttctgtga    4020
cacccacgg ggggacaggg accaataaat aaaatgcgag cactgcacag ttcgcttccc    4080
tgaatcgata tgaaaaacac cgcaggggac ggggcccccg tcatccccat ggccagtctg    4140
caggacttca ggtaaaattg tcccacccaa actgcacgtg gcaccagaag              4190
```

```
          <400> 6411
tttcgtgtaa ggcagatgcc cacgtgatcc tggcctgcag ttgggtggct gcggtgagat     60
acctgggttc ctgaagggcg ggtggttagg tcgtaactac tgccccgcc ggctgagtct     120
ccgagcggcc gggctcggaa gccacgagcc agctgaggcg ttctccgctt agtgcctacg     180
gcatgggtca gctctttctg ccacctccgc cttcgcggtc ctcacctctt tgcgggtgaa     240
gttacctttg ggtttccaga ccttgggggc ctgaggccca aactcgggac gaaccccta     300
cccacctctc ttttcctgtc attctccaac tcttactttg taccacggaa tcacttggcc     360
ttaaagctag ccagctcggc cgtgccttga ggccaggttc gagagataaa ggtaaccgtg     420
gggaaagcgg ccccccagtg gacaaaggcg gaggcaagaa tagagcaggc ctgagggcca     480
taggcgatga gaataggcag ttgaggggtg aaaaagaaaa caaacaaaca acaacaacaa     540
accctgaaga gtactgaaga tttagaaggg actggaaagg acttgttgcg caatggaaga     600
atctgactct gagaaaacga cggagaaaga aaatctgggg ccgagaatgg atccaccact     660
aggggaaccc gggaggatcg cttgggtggg tgctaccaaa tacagccatg aaaaaaaagg     720
tgctgttgat gggtaaaagt gggtctggta agaccagcat gaggtctatt atctttgcaa     780
attatattgc cagagacaca cgtcgccttg gcgcaacaat actagaccgt atacatagtc     840
ttcaaattaa tagcagtttg agcacctact ctctcgtaga ctctgttgga aatacaaaga     900
catttgatgt agaacattct catgttcgat ttctgggaaa cctggtattg aacctgtggg     960
attgtggtgg gcaagacacc ttcatggaaa attatttcac tagccaacgg gacaacatct    1020
tccgaaatgt ggaggttctg atttatgtct ttgatgtgga gagccgcgaa ctggaaaagg    1080
acatgcacta ttaccaatca tgcctggagg ccattctgca gaattctcca gatgccaaaa    1140
tattttgctt ggtacacaaa atggatctgg tacaggagga tcaacgggac ctgatttta    1200
aagagcgaga agaagatttg aggcgtttgt ctcgcccatt ggaatgttct tgtttccgaa    1260
```

5036

```
catctatctg ggatgaaacc ctctataagg cttggtccag catagtttat cagctgattc   1320
ccaatgttca gcagctggaa atgaacctaa ggaattttgc tgaaattatc gaagctgatg   1380
aagtacttct ttttgagaga gctactttc  tggtaatttc tcactatcag tgtaaagagc   1440
agcgtgatgc ccatagattt gagaaaataa gcaacattat taagcagttc aagctgagct   1500
gcagcaagct ggctgcctct ttccagagta tggaagtcag gaactctaac ttcgctgctt   1560
tcattgacat ctttacatcc aacacttatg tgatggttgt gatgtctgat ccgtccattc   1620
cttctgcagc tactctgatc aacatccgca atgccaggaa acactttgaa aagctggaaa   1680
gagtggatgg accaaagcag tgtcttctca tgcgctaaac attgatgaat attgtttcac   1740
acaaaaatta aaagtttcct aattaatgtt gtattcatat atgtaggctc tgaaatgttg   1800
tgatgcttat tgcttctgta tttcttctct actccctagt cttaatgttt aaccttgaat   1860
gctattaact aaaatagcca ttgaggagtt agaagatgaa ttgttcatga agtcggtgtt   1920
acataaaagt aggtgatatg taagtttct  gataacaagg ttctaatagt gtttaaatgt   1980
actggtaacc tggttccaat agttgtgttt gcccaagcct ttctcggcat catcttgtat   2040
tccttatcag atagtaagta acctgtaagt ttggagtatt actgttttct cagcatgcat   2100
taaaaatatt ccttaacttc aattgtaaat aaacttttgg tgttaggg              2148
```

<210> 6412
<211> 3143
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3144)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3039)...(0)
<223> similar to gi4680484 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6412
```
ttttttttt  ttctttttt  acttatttaa aaaggccttg gtggcaggaa tatagtgtaa     60
aaatcatttg gataaaccaa aaggcatcga tacatatccg aatatacatt ttgtacataa    120
attacatttc ctttagtctt tctgagtgag gtcctgattc agtactgagg tctagtaatt    180
aagaggtccc ggggagnctg cacgttcagg gccgggcata gtccaccatg ttacattggg    240
ccattgcacg agtgaggatc tgggttgggc cgatgccact tgaatccggg ttaggaggga    300
cgagggaagg agggaaggac gagggaggga aggagggaga acggaatttt tcctttcccg    360
agaccgcgtt ttctctttgc gcttggggga atgctgctgt ctttggctgg caccttggca    420
tcattgcaga tttctgcaaa gggttggagc tggttaatga tgaccatgcg gacatgctct    480
cgggccttca ggatcttctc cagccggtgg atgtcgtacg tgttggggtt ccggaagggg    540
atgtcatcag gcagacccgt gacctccacg gcgtctgggc tgtcccggat tagtttataa    600
gggaccagca ccggccggtt caggcccagg gcctcaccgt atttctcgtt gaagagttcc    660
ttcacctgct cccgcaggat caccttctcc ccgagtctgt tggcgtcatc ttcatcaggc    720
tttgggatga gtccttggaa aggcctggtg actgtgaact tgatcttgtc agccacagca    780
agaatcctct ccaggttctg ggagccgaag gtacagggct ttcggaacgg gattcctggg    840
ggcagcccct cgatgatcac ggagccgggg ttactcttga tccgcttgta ggggacctgg    900
accgggtact tgatgcccaa ggcttccccg tatttcttat tgaaaggtc  ctggacctgc    960
tcccttagtg tgttggcgat gtcgatccgt gagagcctcg cgtcataatt ttcttgaaag   1020
```

5037

```
ccctgtctct  tcaggctctc  gtccaccaga  gggtccccgg  aatccctctc  ttgactatcc       1080
atgatgggct  ctttgactcc  ctcagtgagc  agctcgggcc  tcttgatgac  aaactggatg       1140
ctgttgctgg  cctccagaat  cttccggagc  ttggcgatcc  cgaagcagtt  gggcctgcgg       1200
agggagatgc  cttcaggcag  tcccaccaca  aacagctcct  ccgggtgcat  cagaaacttg       1260
gagtacggca  ccttgacggg  ctccgagatg  ccaatggcct  tggcgtatcg  tgtgttgaag       1320
agcagctcca  cctgcttccg  caggggccgg  atcacgtcac  cgtggctgtc  ctccacgggc       1380
ctctcctcgg  gccgcgcgtc  ctcactcaga  cctttgtctg  tcagcatctc  catcccataa       1440
ccagaatcct  ccgatggcag  gtgcccaggc  atcgagtctg  tcatttcctc  agaggttggc       1500
gaggggtctg  ggacggtgac  ctgaatgatg  tccagatcct  ctggctcaat  tttgatcggc       1560
ctcagcccgc  ccagctcccc  ggaggttcct  ggcccacagt  cttcagacat  gctgcccttg       1620
tctgaccgag  cattcccagc  aaggtcaagg  accggtggcc  catagagacc  tctgccagag       1680
gtgtcctctg  gcgggctggc  tggctccagc  ttcgtggtgt  ctttggtaaa  cttgttccct       1740
gtgaaaattc  gctcatcaaa  catcctctta  atgatgaagt  ggatactatg  gcgctcctcc       1800
aggatccgct  tcagcttggg  gactccataa  gtgcaggggc  gcttgaaggg  gatcttgtcc       1860
gggatgccca  cgatctccac  agcctccggg  tcacaggcaa  tcttccggta  gggcacgggg       1920
accatgtggt  ccaggcccag  ggcttccgca  tatctgctgt  taaacaggat  ctgcacacac       1980
tcccggagcg  tgttgatgtc  ctcggtttcc  tttatgaagg  cgtcccactt  ctctgacttg       2040
tcatggacga  tggagaagag  aatgcgcttg  gaggcatgga  cgttctggat  gagaggccca       2100
ccaggcccag  tgggcttctg  tccacaacag  tcggagaagt  cttgggcacc  ggtggccttg       2160
ggctctggca  tgggccgact  caggcccagg  tcgctggggg  caaggggGca  ggaaggtgct       2220
tcctgcttga  gctctcggat  ggcgtggttg  gggagcgccg  tgctgtacag  gaagctggcc       2280
atggaggagg  aggtggcggt  tgggggcagg  tcctggggtg  gcaccttggg  ggcctggcca       2340
tgcaggccac  agtcccgtga  ccccttggga  atcagggaga  caccgttcag  ctccaccagg       2400
gccttcgagt  cccgcccgcc  atcctcaagt  ggcctcttga  gcttgaagcg  gatgcggtgg       2460
ctgtgttcca  ggatggccat  gagggccttg  gggtcatact  cggctggcct  tcggaaggcc       2520
aggccttcgg  gcagcccctg  cacggccagc  agccctggct  ccctgagcag  cctctcatag       2580
ggcagtggca  ccacactggc  ccttcccagg  gcctcgctat  aaagaacatc  aaacacctcc       2640
tctaccatct  tccgcagaag  gtacacatct  gagccatgtt  ccagggagga  ccgagggagg       2700
ttacggcctc  caccctcgcc  ccgctgcacc  ttcttggggt  gctctgcctc  cggatccttc       2760
cacgggggcc  ctcggcagaa  cctgaggaag  tctgactgta  gctccttccg  ggcattcagg       2820
aacattctcc  ccttctctgt  gcccaccaca  aaggcgctct  catcgtgcac  ggcgacacag       2880
gccacctcgg  cgttcagttt  ggacagcgct  gagcacatgg  agtctaaggc  agacacgagg       2940
ctggtgatga  tctcgtcttt  gcgggtgaac  gcggagttcc  agcggtcggg  tccgcagccg       3000
ttggtgggga  cgtcacagcg  cttacccagc  aaggccatgg  tcgccttgga  ggatccccaa       3060
gcgctcctgc  cagcggcgcc  ccggccccgg  cccgcggcca  ggaatcagcc  tcctaatann       3120
ntncttaatt  aatccggacg  aaa                                                  3143
```

```
        <400> 6413
gacaggtcct  cactcttacc  acaaagctca  agtcagcttg  gcctctcaag  tggagagata       60
```

```
atcgttctat agcaagaagt acaaagattc tctgcagaca aaaccagcta gccaaggttc    120
cacaacatgt gtacacgtat aagtctgatg gatcagaaga aatatgtacc cgggaatcag    180
atgtagccag cccacatact aacaaacatc aaagcaagcc tagtcagatt gagtcccatt    240
tgaacaatct ttataaaggt ttcttcatgt tatttacaat tcaaagtaaa tttactttat    300
aagcagctag ggaattcttt atttagtaat gtcctaacat aaaagttcac ataactgctt    360
ctgtcaaacc atgatactga gctttgtgac aacccagaaa taactaagag aaggcaaaca    420
taatacctta gagatcaaga aacatttaca cagttcaact gtttaaaaat agctcaacat    480
tcagccagtg agtagagtgt gaatgccagc atacacagta tacaggtcct tcagggaggc    540
aagagacctt tcgactggtc tgcaggtgcc tccaaatgct ggtcctgtgg aacttctttc    600
tgagtctcgt tttcttccaa cgcagtctgt ggtctgacac tcaagtgttc ggatttccgg    660
gaaacgtgac tacctccgtg ttgagtcctt gcttcgccta ctcgtcttaa aatgacacct    720
tctgccaata aagccttccc tgtttccaca aataacttct cttcatctgt ttctccaagt    780
ttctgtagct cagtgtactt ctccacaaac cgttgacagg tagacttgaa gtttggattg    840
aatagatcaa aagctctttg accagaccca tacactgaat aaaaacttcgc tctaatccga    900
tcctcgtggt accagatgtc ttggatggga gctttggctt tgccatatcg cactcgaggc    960
ctttggaaga cgggctccct cagcggggga aaggcgtcat atacgtcaaa ccacaggggc   1020
ttctccttca gcaccccggc ccgaaccagg tcccgagtcc gagagaagat gctccctacg   1080
gtttccagcc ggctgcctgc catgatctgc gccacgaaa                          1119
```

<210> 6414
<211> 1359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (74)...(841)
<223> similar to gi4929699 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6414
```
aaaaatggca gccgccgctc cggactcacg tgtgagtgag gaagaaaacc tgaaaaagac     60
cccaaagaag aagatgaaaa tggtaactgg agccgtagcg tcggtgctgg aagacgaggc    120
cacagacact tctgatagtg aaggaagctg tggatcggaa aaggaccact tttattctga    180
tgatgacgca atagaagctg acagtgaggg tgatgctgag ccctgtgaca aagaaaatga    240
aaatgatgga gaatcaagtg ttgggactaa tatgggctgg gcagatgcta tggctaaagt    300
cctcaacaag aaaactcctg aaagtaaacc tactattctg gtcaaaaata agaagctgga    360
aaaggaaaaa gaaaagttaa agcaagaaag actagagaaa ataaaacagc gtgataagag    420
gctggagtgg gaaatgatgt gcagagtaaa gccagatgtt gtccaagaca aagagacaga    480
gagaaatctt cagagaattg caacaagggg tgtggtgcaa ttatttaatg ctgttcagaa    540
acatcaaaag aatgttgatg aaaaggttaa ggaagctgga agttctatga gaaagcgtgc    600
taagttgata tcaactgttt ccaagaaaga tttcatcagt gttttgagag ggatggatgg    660
aagtacaaat gagactgctt caagcaggaa gaaaccaaaa agccaaacag actgaagtga    720
aatcagaaga aggcccaggt tggacgattc ctacgtgatg atttcatgat gggagcatct    780
atgaaagact gggacaagga aagtgatggg ccagatgaca gcagaccaga atctgcaagt    840
ggactctgga tacataaagc atcataggg aataccaatt gccagtcgtt ttattttttt    900
cttggaaaat ttgtccatcc cctgatagtt ggggaattta taggatacc catttgtaag    960
aaagcccaaa agactttgc ccagatttca tatttcccct tttcatgtac actttatata   1020
tacttcatta aaattatatt ttaaacccctt gtataatttt aagcattgtt cctcagaaca   1080
tttgtaaaag gatatatttc tgcttgacca gcgagatgtg cattttgcca ggatcatatt   1140
```

5039

```
ggtcatgtct attggtgtat tatttcagta tcaccaatgt tttcagaaat acagtactaa    1200
ttcatcatta aactctttga agttaatatt tttctgcctt ctaacttata gactcaacta    1260
tgtatctgta gtttttggga atggttggtg ttttttgctt tgtgttggga agttattgag    1320
aaaacctata taataaaatt taaaattata aaaaaaaaa                           1359
```

<210> 6415
<211> 2967
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (611)...(2619)
<223> similar to gi4886505 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6415
```
cagaagagaa gaacatttct gagtcctcac gaaactattt cagttacata cagtgaatta    60
gacaaattaa gtgtatacct tgatgagtat acatgtgaca cacccaaccc aaggtgcaga    120
atatttataa tacctaagaa gaatcctttg tatgtgcccc ttgaaggtga aattttccaa    180
agttttaaca aaaggttaga gaagacagca agttcaaaaa aggagaggga aagaaagaaa    240
gagaaataga gagagaggaa tatctttgac catcagtctg tgacctgccc cttctcttta    300
catgcagccg ctctctgctc cctgccccaa tgaacatctg cactaggccc aagccttgga    360
gtaattcacc tgaagagtga caccattgat tttgaaacta ctgaagaaac ccaagacagc    420
tgaaaaccag aaggcatctg aggagaatga gattactcag ccgggtggat ccagcgccaa    480
gccgggcctt ccctgcctga actttgaagc tgttttgtct ccagacccag ccctcatcca    540
ctcaacacat tcactgacaa actctcacgc tcacaccggg tcatctgatt gtgacatcag    600
ttgcaagggg atgaccgagc gcattcacag catcaacctt cacaacttca gcaattccgt    660
gctcgagacc ctcaacgagc agcgcaaccg tggccacttc tgtgacgtaa cggtgcgcat    720
ccacgggagc atgctgcgcg cacaacgctg cgtgctggca gccggcagcc ccttcttcca    780
ggacaaactg ctgcttggct acagcgacat cgagatcccg tcggtggtgt cagtgcagtc    840
agtgcaaaag ctcattgact tcatgtacag cggcgtgcta cgggtctcgc agtcggaagc    900
tctgcagatc ctcacggccg ccagcatcct gcagatcaaa acagtcatcg acgagtgcac    960
gcgcatcgtg tcacagaacg tgggcgatgt gttcccgggg atccaggact cgggccagga    1020
cacgccgcgg ggcactcccg agtcaggcac gtcaggccag agcagcgaca cggagtcggg    1080
ctacctgcag agccacccac agcacagcgt ggacaggatc tactcggcac tctacgcgtg    1140
ctccatgcag aatggcagcg gcgagcgctc tttttacagc ggcgcagtgg tcagccacca    1200
cgagactgcg ctcggcctgc cccgcgacca ccacatggaa gaccccagct ggatcacacg    1260
catccatgag cgctcgcagc agatggagcg ctacctgtcc accacccccg agaccacgca    1320
ctgccgcaag cagccccggc ctgtgcgcat ccagaccccta gtgggcaaca tccacatcaa    1380
gcaggagatg gaggacgatt acgactacta cgggcagcaa agggtgcaga tcctggaacg    1440
caacgaatcc gaggagtgca cggaagacac agaccaggcc gagggcaccg agagtgagcc    1500
caaaggtgaa agcttcgact cgggcgtcag ctcctccata ggcaccgagc ctgactcggt    1560
ggagcagcag tttgggcctg gggcggcgcg ggacagccag gctgaaccca cccaacccga    1620
gcaggctgca gaagcccccg ctgagggtgg tccgcagaca aaccagctag aaacaggtgc    1680
ttcctctccg gagagaagca atgaagtgga gatggacagc actgttatca ctgtcagcaa    1740
cagctccgac aagagcgtcc tacaacagcc ttcggtcaac acgtccatcg gcagccatt     1800
gccaagtacc cagctctact tacgccagac agaaaccctc accagcaacc tgaggatgcc    1860
tctgaccttg accagcaaca cgcaggtcat tggcacagct ggcaacacct acctgccagc    1920
cctcttcact acccagcccg cgggcagtgg ccccaagcct ttcctcttca gcctgccaca    1980
```

5040

```
gcccctggca ggccagcaga cccagtttgt gacagtgtcc cagcccggtc tgtcgacctt    2040
tactgcacag ctgccagcgc cacagcccct ggcctcatcc gcaggccaca gcacagccag    2100
tgggcaaggc gaaaaaaagc cttatgagtg cactctctgc aacaagactt tcaccgccaa    2160
acagaactac gtcaagcaca tgttcgtaca cacaggtgag aagccccacc aatgcagcat    2220
ctgttggcgc tccttctcct taaaggatta ccttatcaaa gcacatggtg acacacacag    2280
gagtgagggc ataccaatgt agtatctgca acaagcgctt cacccagaag agctccctca    2340
acgtgcacat gcgcctccac cggggagaga agtcctacga gtgctacatc tgcaaaaaga    2400
agttctctca caagaccctc ctggagcgac acgtggccct gcacagtgcc agcaatggga    2460
cccccctgc aggcacaccc ccaggtgccc gcgctggccc cccaggcgtg gtggcctgca    2520
cggaggggac cacttacgtc tgctccgtct gcccagcaaa gtttgaccaa atcgagcagt    2580
tcaacgacca catgaggatg catgtgtctg acggataagt agtatctttc tctctttctt    2640
atgaacaaaa caaaacaaca acaaaaaaca aacaaacaaa aaagctatgg cactagaatt    2700
taagaaatgt tttggtttca tttttacttt ctgtttttgt ttttgtttcg tttcattttg    2760
tactacatga agaactgttt tttgcctgct ggtacattac atttccggac gcttgcggtg    2820
aataatagtt ttcccagtct ccctcggatg gtggccttaa ggcctgcgta gtgcttcaag    2880
aggtccactg gttggatctc tagctactgg cctctaaata caacccttct ttacaaaaaa    2940
atcttttaaa aaaaagtaaa aaaaaa                                          2967
```

<210> 6416
<211> 2558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (225)...(1513)
<223> similar to gi5262617 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6416
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tgcccgcctg ctgaattcgg cacgaggaca cgctgaacag aattcacctc acgtccagta     60
tgagatggga gtatgaacaa acagtcatgc agagtgatga gtgcaaacat ggactataaa    120
gcggccatag agaatgaact gtgtttgtgt ttagagaaga cacactcccc acccctgaac    180
aggcttctta aaagtactag aaaggaacag aaatgaataa aagtcgctgg cagagtagaa    240
gacgacatgg gagaagaagc caccagcaga acccttggtt cagactccgt gattctgaag    300
acaggtctga ctcccgggca gcacagcccg ctcacgattc cggccacggt gatgacgagt    360
ctccgtcaac ctcgtctggc acagctggga cctcctctgt gccagagcta cctgggtttt    420
actttgaccc tgaaaagaaa cgctacttcc gcttgctccc tggacataac aactgcaacc    480
ccctgacgaa agagagcatc cggcagaagg agatggagag caagagactg cggctgctcc    540
aggaagaaga cagacggaaa aagattgcca ggatgggatt taatgcatct tccatgctac    600
gaaaaagcca gctgggtttt ctcaacgtca ccaattactg ccatttagcc cacgagctgc    660
gtctcagctg catggagagg aaaaaggtcc agattcgaag catggatccc tccgccttgg    720
caagcgaccg atttaacctc atactggcag ataccaacag tgaccggctc ttcacagtga    780
acgatgttac agttggaggc tccaagtatg gtatcatcaa cctgcaaagt ctgaagaccc    840
ctacgctcaa ggtgttcatg cacgaaaacc tctacttcac caaccggaag gtgagattcg    900
gtgtgctggg cctcgctgaa tcacttggat tcccacattc tgctatgcct catgggactc    960
gcagagactc caggctgtgc caccctgctc ccagcatcac tgttcgtcaa tagtcaccca   1020
gcaggaatag accggcctgg gcatgctctg cagtttccgg atccctggtg cctggtcctg   1080
tgcctggtcc ctgaatatcc aagcaaataa ctgcttcagt acaggcttgt ctcggcgggt   1140
cctgttgacc aacgtggtga cgggacaccg gcagtccttt gggaccaaca gtgatgtctt   1200
```

```
ggcccagcag tttgctctca tggctcctct gctgtttaat ggctgccgct ctggggaaat    1260
ctttgccatt gatctgcgtt gtggaaatca aggcaaggga tggaaggcca cccgcctgtt    1320
tcatgattca gcagtgacct ctgtgcggat cctccaagat gagcaatacc tgatggcttc    1380
agacatggct ggaaagatca agctgtggga cctgaggacc acgaagtgcg taaggcagta    1440
cgaaggccac gtgaatgagt acgcctacct gcccctgcat gtgcacgagg aagaaggaat    1500
cctggtggca gtgggccagg actgctacac gagaatctgg agcctccacg atgcccgcct    1560
actgagaacc ataccctccc cgtaccctgc ctccaaggcc gacattccca gtgtggcctt    1620
ctcgtcgcgg ctgggggggct cccgggggcgc gccggggctg ctcatggctg tcgggcagga    1680
cctttactgt tactcctaca gctaattctg cagggcacag cccagagcca tgtggatttg    1740
acttacggga gtaaagcgta acttttact gcatctaatg agggtgtttt aagtgacact    1800
cagtgtacac agatcccatc ctctggctgc taggagagaa gtgctgaatg ttccgtgtgg    1860
agatgctcag gaaagttatt tgagttaaat tgctggctga gagagcttgg aagtccttt    1920
cataaaaggt acctctttcc ttttcttatt gaattcttag aacttagtta accctccctg    1980
cctttttctta acaaaaagga ctttttctaag gactgaagat tggcaaaaac gaaaagcttc    2040
ttcctccaag agcccattga agaagcccag tgatgagacg gtgagatggt ttgagtcctc    2100
ggtgcctggg tagcaggaag aaagacctgc atcctgcatc tgtacttggg gaagccagcg    2160
gagaggacgg ggaggttact tctctaagtt tctgcagaaa tattgaaggc tggagtttgg    2220
aatcccttaa acttggccct tcctcaaact cagcagcaga tcctccggga ttcctgcctg    2280
ttattatccc aaaggcggtg gaagggaaag atggatcttc tttacatgcc tagaagtttt    2340
aaacggtcct taacatgcct ttgttcaagc accttcccag aatgtaaagg ttcagcagct    2400
ctggtttcta ttacggtgac ttgaatgtca gattcaaggg cccggcgtca aaggaaattg    2460
gttttgactt tttgtaatct agggagcgac aggttcgtga gatgtttatt cagtgttaaa    2520
gagcctgttt ttctaccaaa caataaaacc aagagaag                            2558
```

```
<400> 6417
tttcgtggac gtccacgatc tctttcgccg gctcggcgcg ggggccaaat tcgacacgag      60
acgcttctcg gcagacgcag ctcgattcca gataggaaaa aggaaatatg actttgattc     120
ttcggaggtg cttcagggac tggacttttt tggaaacaag aagtctgtcc caggtgtgtg     180
tggagcatca caaacacatc agaagcccca aaatggagag aaaaaagaag agagcctaac     240
tgaaaggaag agggagcaga gcaagaaaaa aaggaagacg atgacttcag aaaattgcttc    300
ccaagaagaa ggtgctacta tacagtggat gtcatctgta gaagcaaaga ttgaagacaa     360
aaaagttcag agagaaagta aactaacttc cggaaagttg gagaatctca gaaaagaaaa     420
gataaacttc ttgcggaata aacacaaaat tcacgtccaa ggaaccgatc ttcctgaccc     480
aattgctaca tttcagcaac ttgaccagga atataaaatc aattctcgac tacttcagaa     540
cattctagat gcaggtttcc aaatgcctac gccaatccaa atgcaagcca tcccagttat     600
gctgcatggt cgggaacttc tggcttctgc tccaactgga tctggaaaaa cattagcttt     660
tagcattcct attttaatgc agctgaaaca acccgcaaat aaaggcttca gagccctgat     720
tatatcacca acacgagaac ttgccagcca gattcacaga gagttaataa aaatttctga     780
gggaacagga ttcagaatac acatgatcca caaagcagca gtggcagcca agaaatttgg     840
```

```
acctaaatca tctaaaaagt ttgatattct tgtgactact ccaaatcgac taatctattt    900
attaaagcaa gatccccccg gaatcgacct agcaagtgtt gagtggcttg tagtagacga    960
atcagataaa ctgtttgaag atggcaaaac tgggttcaga gaccagctgg cttccatttt   1020
cctggcctgc acatcccaca aggtccgaag agctatgttc agtgcaactt ttgcatatga   1080
tgttgaacag tggtgcaaac tcaacctgga caatgtcatc agtgtgtcca ttggagcaag   1140
gaattctgca gtagaaactg tagaacaaga gcttctcttt gttggatctg agaccggaaa   1200
acttctggcc atgagagaac ttgttaaaaa gggtttcaat ccacctgttc ttgtttttgt   1260
tcagtccatt gaaagggcta aagaactttt tcatgagctc atatatgaag gtattaatgt   1320
ggatgttatt catgcagaga gaacacaaca acagagagat aacacagtcc acagtttcag   1380
agcaggaaaa atctgggttc tgatttgtac agccttgcta gcaagaggga ttgattttaa   1440
aggtgtgaac ttggtgatca actatgactt tccaactagc tcagtggaat atatccacag   1500
gataggtcga actggaagag cagggaataa gggaaaagca attacatttt tcactgagga   1560
tgataagcca ttattaagaa gcgttgctaa tgttatacag caggctgggt gtcctgtacc   1620
agaatacata aaaggttttc agaaactact aagcaaacaa aagaaaaaga tgattaagaa   1680
accattggaa agggagagca ttagtacaac tccaaaatgt ttcttagaaa aagctaagga   1740
taaacagaaa aaggtcactg gtcagaacag caagaagaaa gtagctcttg aagacaaaag   1800
ttaaaaacag actttaaaaa tactgtccca gaaatgtaat tttatgatcc cagcatgaat   1860
gttattttca tggaatactt gaagtcttac agtcacctgt accaaacatt tgaaatcaac   1920
tacaagtaca tgggactggt gataaatgat cctaaactat caagtcagtt tcaatttgta   1980
ggtgcctttt ttttttcctg taaagatgag ggtcttgcca tgttgtccag gctggtcttg   2040
aactcctgac ctcacacaat cctcctgcct tagcctcctg agtaactgaa attacaggca   2100
caagctgttg cacccagcct ctgtagggga cttttaaatg attatacaat ggaaataaca   2160
ttcattgaca tttctgtggt ttgaatccca gagagatact tcttatagaa aaacaaatgt   2220
ttatgctaaa aataacacca aaatgtggtt gaactcttaa ggacttttcc cttcaagtgt   2280
gaaggaaggt gtgatgaatg ctgtggagag gcatctggaa cagaaattca aaataaagcc   2340
ttgacattaa ataccccttc cactgctcac tttgtggatg gtagcatgag ctgtctacca   2400
agaagaaacc tgctgctctc ttaattttaa tatttcctaa tttgttgatg gccttttgtg   2460
ttgtgaacca caacaaagag aggcctcttt tgtggctggt tattccagtt ccctgggatt   2520
ttaaattctt tggtctatta agtatccttg tattggatac gtaatacctt agtgctgtca   2580
taatgttgta caagatcatg atcagcttct ccctttcttc attttctgtg atttaaccat   2640
gttctttcct gtctctttcc atttaagata ttttatttga atactgataa acattttatc   2700
ctgataagga agaatgttct tgttacttga tatacctctg tcttcattct cttacagctt   2760
atctttcctt aggttgatgg tgcctcattt aataagtaga tctctactta agctaaagga   2820
ttatgatcat atggtgttgg agactattag ctattagatt tttctcaaaa tatgagaatt   2880
gtacaatgga atgaaaagt gacttcatat acgtaagact ggtgcctaag aatgacttga   2940
atgttatcag tactaccaca gaactataat atacattgcc ttttctcagc aaaaaaaaaa   3000
aaa                                                                 3003
```

<210> 6418
<211> 2801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2802)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (208)...(1040)
<223> similar to gi4006872 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5043

<400> 6418
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cccccattg ctcgcctgca ggaattcggc acgagccgac gccacatggc ggcgcccagt      60
ggcgtccacc tgctcgtccg cagaggttct catagaattt tctcttcacc actcaatcat     120
atctacttac acaagcagtc aagcagtcaa caaagaagaa atttctttt tcggagacaa      180
agagatattt cacacagtat agttttgccg gctgcagttt cttcagctca tccggttcct     240
aagcacataa agaagccaga ctatgtgacg acaggcattg taccagactg gggagacagc     300
atagaagtta agaatgaaga tcagattcaa gggcttcatc aggcttgtca gctggcccgc     360
cacgtcctcc tcttggctgg gaagagttta aaggttgaca tgacaactga agagatagat     420
gctcttgttc atcgggaaat catcagtcat aatgcctatc cctcacctct aggctatgga     480
ggttttccaa aatctgtttg tacctctgta aacaacgtgc tctgtcatgg tattcctgac     540
agtcgacctc ttcaggatgg agatattatc aacattgatg tcacagtcta ttacaatggc     600
taccatggag acacctctga aacattttg gtgggcaatg tggacgaatg tggtaaaaag      660
ttagtggagg ttgccaggag gtgtagagat gaagcaattg cagcttgcag agcaggggct     720
cccttctctg taattggaaa cacaatcagc cacataactc atcagaatgg tttttcaagtc     780
tgtccacatt ttgtgggaca tggaatagga tcttactttc atggacatcc agaaatttgg     840
catcatgcaa acgacagtga tctacccatg gaggagggca tggcattcac tatagagcca     900
atcatcacgg agggatcccc tgaatttaaa gtcctggagg atgcatggac tgtggtctcc     960
ctagacaatc aaaggtgtcg gcgcagttcg agcacacggt tctgatcacg tcgaggggcg    1020
cgcagatcct gaccaaacta ccccatgagg cctgaggagc cgcccgaagg tcgcggtgac    1080
ctggtgcctt tttaaataaa ttgctgaaat ttggctggag aactttttaga agaaacaggg   1140
aaatgaccgg tggtgcggta acctgcgtgg ctcctgatag cgtttggaag aacgcggggg   1200
agactgaaga gcaactggga actcggatct gaagccctgc tggggtcgcg cggctttgga    1260
aaaacaaatc ctggccctgg actcggtttc ccagcgcggt caacgcatct ggaggggact    1320
ggaggaaacc cccttgttgg aagagattcc aagagaagca cggtttctc tttcccttgc     1380
cctgactgtt ggagtaaaaa acctcttaaa tccattgtat cagaggtcct tacctctctg    1440
acagttacaa tgatctttgt atctgaactt tgcacgtctg ccgaaaaatc cgaacctgtt    1500
gactgggatt tttaacaatc ccttttcccc ttttgtgtat tccatattgg ccggccccaa    1560
ggatgctcgc agaagccagc ccccaacccc agcccttccg tatctttccc ctccatcgcg    1620
gctttgcgat gaaagattag cccgcgaaca gaggcattga ttacaaacat gtccttggca    1680
gtggactctg ggcctggcat tcttcaggtt tctgtcaatc cagaaacgcg actttcctgg    1740
acccctgcgg ctctgtcctt cccgcccaca tccagccctc caaggccagt ccagaggtga    1800
agtttgaggc cctcccccca cccaccccac acgcacgcag gcacgctaga ccgtttgctg    1860
cactaggaat tcgagcttgg gccccactcg cccaggtgtg aacagtggct gattagtggg    1920
cggtctagtc tctaaaatga cccctcccca gactggccct tctcgcatcg ggaccgcgc     1980
ttgcacgctg caggagccgc aaacgtcagc tgttctggaa accgagaggg tcccagagag    2040
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tgagctccag ttcggccggc agttccatcc cgcttcagga acaggaatcc aagggcccac    2160
gctctgtctg ccaagggcca ttcctgcccg gagcaccctc ctttcccttg cgcttgctct    2220
ccggtacctg ttccgcacct gagctcaagg gcagggagag gccgggcctc tggcagtcca    2280
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gcagttaatg gttgtgctaa ctcttgtttc tactgaagcg ggttttgcaa agctgacatc    2400
ccttaaagat aacttgggct ttcggaagcg gcaaggaaat ggcacctgta gttgccagga    2460
caggtggtgt cctcggccag gactaagagc cagctcatct ttgtaacatt cataatacgg    2520
gaaactgagg accaggtggc tcggaaaaga gatgagttcc aagctttac ctaacacagg     2580
gttctctcgt cgtcccccaa cccctccagc tcggcttctt tgtgtccagg gttgtagatt    2640
tttggataga ggtgtttctg attctaagtg agtctgagaa ctggaaaaga ccaaggaggg    2700
gttgatgatt tacnaggtcc atagaaaaac tttttgtgtg gtcggaagtt ggccaagcag    2760
aggcccacag cctgatgcta ctgcccccac cccccaaag a                          2801
```

5044

<210> 6419
<211> 896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (821)...(361)
<223> similar to gi695581 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6419
tttttttttt ttggggggatg tgatagagag gatttattca tttgataata gttagaacac   60
ataacctctg agatctctgt aatctcagat actttagttc tataattcta aatccaaggg   120
tctctataga taggcttgag acaagtgtaa acaaactcat gatctcagag aaatcttcaa   180
gtggcatgtt tcaatggtat gcttattaaa caaatgctca tgacagattt tcacaacagt   240
aacgaatgtt attttcacaa catccaaatc ttccttcctc agggaagaaa tgacatttaa   300
taagaaggtt gatggatttg gattattttt catgtttcct ggaggtaaaa ccagtgtcct   360
cacttgtttt cctctttttc ctcattttga agactatttg ttttcatttt tctttgcctc   420
ctctcgggct atgtgtcccc ggaaggcagc ttggattttg acagcagcaa cctcttcttt   480
ttccttatct tcctcagaag agtctaagat ggtgactgat gtctcttcct ccttcccaga   540
tatctgagac tcttcttgtt taggatcact tttctcaggt ggttcttgct cctcgaatgc   600
atgattgtta tagaagcggt cttctacctt actcccccat tctgctggat caaagttggt   660
tttctctctt ttctctagaa ggctctcaaa ataggctgct gcaaaagctg gtatattgtc   720
cggttgctct ctcagaatct cgcgtgtcag cccttcaaga agattcccaa atccttgtgg   780
aattcggtag tgggtgttgg agaatggaat cgacatcttc ttggtaagaa ctgcctatgg   840
aacctccttt ctctccgagc tggtcccgcc ggttccggtc tcgtgccgct cgtgca   896

<210> 6420
<211> 1986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1558)...(708)
<223> similar to gi3875443 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6420
taataataaa aaataacttt ttaaatgggc aaaggctctg aatagacatt tctccaaaaa   60
acatatacaa atggccaatc agcacatgaa aagatgttca acatcatcag ccatcaggga   120
aatacaagtc aaaattgcaa tggtatacaa ttaatatacc atttaacatt cccaatagta   180
gcctacaact tccatttcca ctgtggaaaa cggtttggaa gttcctcacg gtagtcaagt   240
tacttaactg ctctgtaaaa tgaagttaat cacattcact ttggatgaat gagttcatat   300
atattagcta taattactac agcaattatc attgtgtaca ttattactga ttgggtcaaa   360
ttattaaccc cgtctcccta attcatttac ttttgttact ttggatgaat atttaaagta   420

5045

```
gtcttgaact gagatatgta tgtaaaggtt ctatcacatt ggcatataac atgtgctcaa    480
caaatgaaag ctataattat ttatttccaa agagtttaaa gattaaactt ccctcaaaac    540
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        <213> Homo sapiens

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        <223> similar to gi2887423 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



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5049

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ggagagagaa atagcttcaa agtccccagt atagcagagg gagaacaa aacctctaag    1920
agttggcgcc atccacttag caggcctcca gcaagatctc cgatgactct tgtgaagcag    1980
caggcgccaa gtgatgaaga attgcctgag gttctgtcca ttgaggagga agtggaagaa    2040
```
```
                                      5050
```

```
acagagtctt gggcgaaacc tctcatccac ctttggcaga cgaagccccc taacttcgca    2100
gctgagcaag agtataatgc aacagtggcc aggatgaagc cacactgtgc catctgcact    2160
ctgctcatgc cgtaccacaa gccagatagc agcaatgaag aaaatgatgc tagatgggag    2220
acaaaattag atgaagtcgt tacatcggag ggaaagacta agccctcat accagagatg     2280
tgttttattt atagtgaaga aaatatagaa tattctccac ccaatgcctt ccttgaagag    2340
gatggaacaa gtctccttat ttcctgtgca aagtgctgcg tacgggttca tgcaagttgt    2400
tatggtattc cttctcatga gatctgtgat ggatggctgt gtgcccggtg caaaagaaat    2460
gcgtggacag cagaatgctg tctctgcaat ttgagaggag gtgctcttaa gcaaacgaag    2520
aacaataagt gggcccatgt catgtgcgcc gttgcggtcc cagaagttcg attcactaat    2580
gtcccagaaa ggacacaaat agatgtaggc agaatacctt tacagaggtt aaaattgaaa    2640
tgcatcttct gcagacaccg ggttaagagg gtctctggag cctgcatcca gtgttcctac    2700
ggtcgctgcc cggcctcctt ccatgtcact tgtgcccatg ctgctggggt actgattgga    2760
gcctgatgat tggccttatg tggtgaacat tacatgcttt cgacataagg tcaaccccaa    2820
cgtgaagtcc aaggcttgcg agaaggtcat ttccgtgggt caaacggtca tcacgaagca    2880
tcggaacacc cggtattaca gttgcagagt gatggctgtg acatcgcaga ccttctatga    2940
ggtcatgttt gatgatggct cctttagcag agacacattt cctgaggata tcgtgagccg    3000
agactgtctg aagctgggcc cacctgctga gggagaagtc gtccaagtca agtggcccga    3060
tggcaaactc tatggagcaa aatattttgg atcaaatatt gcccacatgt accaggttga    3120
gtttgaagat ggatcccaga tagcaatgaa gagagaggac atctacactt tagatgaaga    3180
gttacccaag agagtgaaag ctcgatttgt aagtgctggc agatgccact tggggacctg    3240
ccaagtgaat tccttgtcct cacctcatgt ttcccaagcc cagcaggaaa catacttggg    3300
cttttggatt aattctaaaa aaagccaatg caacattttc cttagtggaa cctattgaat    3360
gcacacttca aattcaacca aaatcggggga aattaatgca tgtgctttac ttttcttcta   3420
atgaagtcac atgatgcttc tttgtgttga catttattgg tgcacaaaaa tacttactga    3480
atgtgtgctc tgtgtaaaac a                                              3501
```

<210> 6424
<211> 1366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (292)...(1098)
<223> similar to gi2276368 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 6424
tggggcagag gttgggaaga tggcgtggcg aggctgggcg cagagaggct ggggctgcgg      60
ccaggcgtgg ggtgcgtcgg tgggcggccg cagctgcgag gagctcactg cggtcctaac     120
cccgccgcag ctcctcggac gcaggtttaa cttctttatt caacaaaaat gcggattcag     180
aaaagcaccc aggaaggttg aacctcgaag atcagaccca gggacaagtg gtgaagcata     240
caagagaagt gctttgattc ctcctgtgga agaaacagtc ttttatcctt ctccctatcc     300
tataaggagt ctcataaaac ctttatttt tactgttggg tttacaggct gtgcatttgg      360
atcagctgct atttggcaat atgaatcact gaaatccagg gtccagagtt attttgatgg     420
tataaaagct gattggttgg atagcataag accacaaaaa gaaggagact tcagaaagga     480
gattaacaag tggtggaata acctaagtga tggccagcgg actgtgacag gtattatagc     540
tgcaaatgtc cttgtattct gtttatggag agtaccttct ctgcagcgga caatgatcag     600
atatttcaca tcgaatccag cctcaaaggt cctttgttct ccaatgttgc tgtcaacatt     660
cagtcacttc tccttatttc acatggcagc aaatatgtat gttttgtgga gcttctcttc     720
```

5051

```
cagcatagtg aacattctgg gtcaagagca gttcatggca gtgtacctat ctgcaggtgt    780
tatttccaat tttgtcagtt acctgggtaa agttgccaca ggaagatatg gaccatcact    840
tggtgcatct ggtgccatca tgacagtcct cgcagctgtc tgcactaaga tcccagaagg    900
gaggcttgcc attattttcc ttccgatgtt cacgttcaca gcagggaatg ccctgaaagc    960
cattatcgcc atggatacag caggaatgat cctgggatgg aaattttttg atcatgcggc   1020
acatcttggg ggagctcttt ttggaatatg gtatgttact tacggtcatg aactgatttg   1080
gaagaacagg gagccgctag tgaaaatctg gcatgaaata aggactaatg gccccaaaaa   1140
aggaggtggc tctaagtaaa actgggattg gacagtagtg gtgcatctgg tccttgccgc   1200
ctgagagccc caggagacat cggctagagt gaccatggct atgctcccgt ctggaagatg   1260
ccagcatctg gcctcccact gtttttcagct gtgtcccca gtccgtgtct ttttagaatg   1320
tgaatgatga taaagttgtg aaataaaagg tttctatcta gtttgt                   1366
```

```
        <400> 6425
gtcttgctgt cacccagact ggagtgcagt ggcatgatca tagctcactg cagactcaaa     60
ctcccggact caagcaatcc actcacctca gcctcctaac tgggactaca ggtgcacacc    120
accatgctca gataattttt taactttttg tagagaaagg gtctcactat gttccccagg    180
ctggtctcaa gcgatcctcc catctcagtc tcccaaagtg ctgggattac aggcatgagc    240
caccactgtg cctggcctaa aaatttttg ttaaaaatgc tttccaccgg ccgggtgcag    300
tggctcatgc ctataatttt tttgtttttt cagaagatgg gaggcaacat ggtaggttca    360
caattaaaat tgtcttgaaa gtatttattg tttaataatt ctttctcccc tcagccccat    420
ccggccactc tctctttctg cttttctgat catcctaaag gctgaataca tcctcctcat    480
gtgtggagga cacgaagcaa tactaaaatc aatacactcg atcaggtctt catcagatac    540
cacgtcactg tggggtagag tgctagtttt caacaaatgg tgggtgttct tatgggctcc    600
acaaggtagt cctttctcaa ggtcgctggg gccactcatg gagttgaaat gccgctgccc    660
atctaagtac aacatggact ctccatatgt ttttgggaaa accagtggca cttcttttc    720
cgacatgaac gtgaaatgaa agacattggt ggttgtatgc tgcttctcct gcagggaggc    780
cacttcactg tgtactctga cttgaatata attattctga gtaaagcata cctgtgaaga    840
aagaaagagc aatgagccaa cctcaacagg tttctgaaac atgatgtcat ctactgctac    900
cacaaacggt cgagaaccac caaagctaca agcagtagcc cacgcaagtt catatgcctt    960
cctcataagg aaaccaccaa agatccgatt gaaaatgttc cgctcctgag ggtggcaaat   1020
ttccaaactc ttcagttttg aattctccat ccacactgca ttagagggta aaactcgact   1080
ccgaaaactt atagtctttg gatccagtgt gctgagaaac atctcatgta tggtggtcct   1140
ctcctcagcg ctggggggcca ttttcagtaa cgacgtggag ctgaaggcaa ttcttctccc   1200
cttgttcaat tccccttgtc taaagagctc ctcttcctct gggctttcag ggatgagtgg   1260
```

```
atttacaaat gccggccctt tattttcaga atcacgagcc accattacaa atgttgcatc      1320
caaaacagga caaaattcat caccatgtaa ctggaacatt tgcatcttca cttccatgga      1380
tgtcttcccg acccagctaa catggccact gaacttaatg tcctgttctg ggctcaagct      1440
cttcttacac atatcaatct tatccaccag ggctgtaact atcgataaag gagacatctt      1500
ggcggagtgg attttgttgt gcatgtaaca aataagaact cccaagctgt caagatcctc      1560
aagaatcctg ccaaatctta cggtgttttg aacagtcaaa tatttctctt gtaattcagg      1620
ctcactgccc aaaggcaaga gaacttcaat ataactgtcc ttcattctcc taggaggcag      1680
tccatcctgt gatttagcca agaaactatg aagtaatttc ctttcttcca ttgccttcac      1740
atggtctctc cagtttgtgg atgctcctac tatctcccgc aacttatctc gaacttcatg      1800
aatgtggaag attccctgtt tcttggggtt ctggggtcct tgagtcagtc ctcttccagg      1860
agtaagctgc cctttgccca aggcacaaag ccgcagtgct gcccgcctca ttgcgctagg      1920
ctgccgtgcg cgcgatggag aaccgggccc cgcgcgctag tcggcggagg gaaactgagg      1980
cgataaaaga cgcacgagta ccagaccgcg cccttgctga ggacagcccg ggagccggac      2040
agcggcccgg ctcgagcggc cgctcgagcc gggaattcca ccgcnctcct ataatggtct      2100
tctatggggg gggggggggg cg                                              2122
```

<210> 6426
<211> 2036
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2037)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (94)...(854)
<223> similar to gi4104961 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6426
```
ttcgtggcgc gcctgaagga gcaggaaggg gaaggaggcc tgggaccccg aaaagagaag       60
gggagagcga ggggacgaga gcggaggagg aagatgcaac tgactcgctg ctgcttcgtg      120
ttcctggtgc agggtagcct ctatctggtc atctgtggcc aggatgatgg tcctcccggc      180
tcagaggacc ctgagcgtga tgaccacgag ggccagcccc ggccccgggt gcctcggaag      240
cggggccaca tctcacctaa gtcccgcccc atggccaatt ccactctcct agggctgctg      300
gccccgcctg gggaggcttg gggcattctt gggcagcccc ccaaccgccc gaaccacagc      360
cccccaccct cagccaaggt gaagaaaatc tttggctggg gcgacttcta ctccaacatc      420
aagacggtgg ccctgaacct gctcgtcaca gggaagattg tggaccatgg caatgggacc      480
ttcagcgtcc acttccaaca caatgccaca ggccagggaa acatctccat cagcctcgtg      540
ccccccagta aagctgtaga gttccaccag gaacagcaga tcttcatcga agccaaggcc      600
tccaaaatct tcaactgccc ggatggagtg ggagaaggta gaaccggggc cgccggacct      660
cgcttttcac ccacgaccca gccaagatct gctcccgaga ccacgctcag agctcagcca      720
cctggagctg ctcccagccc ttcaaagtcg tctgtgtcta catcgccttc tacagcacgg      780
actatcggct ggtccagaag gtgtgcccag attacaacta ccatagtgat accccctact      840
acccatctgg gtgacccggg gcaggccaca gaggccaggc cagggctgga aggacaggcc      900
tgcccatgca ggagaccatc tggacaccgg gcaggaagg ggttgggcct caggcaggga      960
ggggggtgga gacgaggaga tgccaagtgg ggccagggcc aagtctcaag tggcagagaa     1020
```

```
agggtcccaa gtgctggtcc caacctgaag ctgtggagtg actagatcac aggagcactg    1080
gaggaggagt gggctctctg tgcagcctca cagggctttg ccacggagcc acagagagat    1140
gctgggtccc cgaggcctgt gggcaggccg atcagtgtgg ccccagatca agtcatggga    1200
ggaagctaag cccttggttc ttgccatcct gaggaaagat agcaacaggg aggggggagat    1260
ttcatcagtg tggacagcct gtcaacttag gatggatggc tgagagggct tcctaggagc    1320
cagtcagcag ggtggggtgg ggccagagga gctctccagc cctgcctagt gggcgccctc    1380
agcccttgt cgtgtgctga gcatggcatg aggctgaagt ggcaaccctg gggtctttga    1440
tgtcttgaca gattgaccat ctgtctccag ccaggccacc cctttccaaa attccctctt    1500
ctgccaagta ctccccnttt accaccccat tgctgatggc acacccatcc ttaagcttaa    1560
gacaggacga ttgtggtcct tccccaacac taaagccaca agcccatccg cgtgcttgtg    1620
tgtcccttct ttccacccca acccctgctt ggctccttct gggagcatcc atgtcccgga    1680
gaggggtccc tcaacagtca gcctcacctg tcagaccggg gttctcccgg atctggatgg    1740
agccgccctc tcagcagcgg gcacgggtgg ggcggggccg ggccgcagag catgtgctgg    1800
atctgttctg tgtgtctgtc tgtgggtggg gggaggggag ggaagtcttg tgaaaccgct    1860
gattgctgac ttttgtgtga agaatcgtgt tcttggagca ggaaataaag cttgccccgg    1920
ggcactggag tcagagttgt ccaaggaaag ggcctcaggc atcccttggt ncaggaagaa    1980
tttctctgat ggccgcagac attttgcttg agacccaagt ggcagggatc caaccg       2036
```

```
        <400> 6427
caccc gcttc cgtcagcctc actggggctt ccttccgtct cgctcggagt ttccctctgc      60
gttcgctccg cgctgctgga ggctgtcgtc ccaatgctcc ccaaacggcg gcgagcgcgg     120
gtcgggtccc ctagcggcga tgccgcttcc tccacgccgc cctcgacgcg cttcccggga     180
gtcgccatct acctggtcga gcctcgcatg ggtcgcagcc gccgggcctt cctcacaggc     240
ctggcgcgct ccaaaggctt ccgcgtcctt gacgcctgca gctccgaagc gacacatgtt     300
gtgatggaag agacctcagc agaggaggcc gtcagctggc aggagcgcag gatggcagct     360
gctcccccgg gttgcacccc cccagctctg ctggacataa gctggttaac agagagcctg     420
ggagctgggc agcctgtacc tgtggagtgc cggcaccgcc tggaggtggc tgggccaagc     480
aaggggcctc tgagcccagc atggatgcct gcctatgcct gccagcgccc tacgcccctc     540
acacaccaca acactggcct ctccgaggct ctggagatac tggccgaggc agcaggcttt     600
gaaggcagtg agggccgcct cctcaccttc tgcagagcag cctcggtgct caaggccctt     660
cccagccctg tcacaaccct gagccagctg caggggcttc cccactttgg agaacactcc     720
tctagggttg tccaggagct gctggagcat ggagtgtgtg aggaggtgga gagagttcgg     780
cgctcagaga gctcttcacc cagatcttcg gggtcggtgt gaagactgct gaccggtggt     840
accgggaagg actgcgaacc ttagatgacc tccgagagca gccccagaaa ctaacccaac     900
agcagaaagc gggtgagccc tccagagagg ctgggccctg ggcttcccta aactgcaccc     960
tggatccctc agcatcaact ccctagaggg aagggagcag tctggtgcag agggtttggt    1020
ggcagctttg tgtggtgggc ttcctggggt ctccacccag tgcagtcagg atctatcaaa    1080
gccttttctc agtggacgat gctgaccaca gcaacttcca tgatatgcca ggggcttgtg    1140
tctgcctact ggttagactt tgaccagtga ccaggacag cctgggcctt gggcacactg    1200
```

```
cccagtgtgg tgcttggtac atggaggcct gcagaggtgg cactgagcag cagaaagaac   1260
atcagctttc aagtttgtta ggcctgggtt tgagtcttat ctaccatttg ccaggtaggt   1320
gaccattgcc caagaaataa cctctctgag tctgttacat tttctgtaaa atggagaagg   1380
aaggctgggc atggtgactc acacctgtaa tcccagcact ttgggaggtc aaggtgggta   1440
gatcgcttga gctcagcagt tcaagaccag tctgggcaac agggtgaaac cctgtctcta   1500
cgagaaatac aagagttagc caggcgtgat ggtggatgcc cgtagtacca ggctactcat   1560
gaggccgagg tacaaggatc gctcgagccc gggaggtcaa gccttgaggc caaggtggaa   1620
gttgcaatga gctgagattg agccactgca ctccagcctg agtgacagag caagacccta   1680
tctcaaaaa                                                            1689
```

<210> 6428
<211> 4327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (20)...(3651)
<223> similar to gi3882241 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6428
```
ccagcaggac ttcgagtctc tggcagacct gacggaccac cgggcccacc gctgtcctgg     60
agatggtgat gacgacccac aactctcctg ggtggcctcg tctccctcca gcaaggatgt    120
tgcgtcaccc acgcagatga tcggagatgg ttgtgacctc ggcctcggcg aggaggaagg    180
gggcacgggc ctgccatacc cttgccagtt ctgcgacaag tccttcatcc gcttgagcta    240
cttgaagagg cacgagcaga tccacagcga caagctgccg ttcaagtgca cctactgcag    300
ccgcctcttc aagcacaaga ggagccgtga ccggcacatc aagctgcata cgggcgacaa    360
gaagtatcac tgccacgagt gcgaggcagc cttctcccgc agcgaccacc tcaagatcca    420
cctgaagacc cacagctcca gcaagccctt caagtgcact gtgtgcaagc gcggcttctc    480
ctccaccagc tcgctgcaga gccacatgca ggcccacaaa aagaacaagg agcatctggc    540
caagtcggag aaggaagcca agaaggacga cttcatgtgc gactactgcg aggacacctt    600
cagccagacg gaggagctgg agaagcacgt gctcacccgc cacccgcagc tgtccgagaa    660
ggcggacctg cagtgcattc actgccctga ggtcttcgtc gacgagaaca cactgctcgc    720
ccatatccac caagcccacg ccaaccagaa acacaagtgc cccatgtgcc ctgagacagt    780
tctcctcagt ggtaaggtgt ctactgccac ctggacagcc accggcagcc cgactccagc    840
aaccacagtg tcagtcccga ccctgtactg ggcagcgtgg cctccatgag cagcgccaca    900
cccgactcca gcgcctctgt ggagcgtggc tccaccccgg actccacctt gaagccgctg    960
cgggggcaga agaagatgcg ggatgacggg cagggctgga ccaaggtggt ctatagctgc   1020
ccctattgtt ccaagcggga ctttaacagc ctggccgtgc tggagatcca cctgaagacc   1080
atccacgcgg acaagcccca gcagagccac acatgtcaga tctgcctgga ctccatgccc   1140
accctctaca acctcaacga gcacgttcgc aagctgcaca gaaccatgc ctaccctgtg    1200
atgcagtttg gcaacatctc tgccttccac tgcaactact gccccgagat gttcgccgac   1260
atcaatagcc tgcaggagca catccgcgtc tcccactgcg gccccaacgc caaccccтct   1320
gacggtaata atgctttctt ctgcaaccag tgctccatgg gtttccttac tgagtcctcc   1380
ctcaccgagc acattcaggc agggcccact gcagtgtggg cagtgccaaa ctagagtctc   1440
cggtggtgca gcccacgcag tccttcatgg aggtctattc ctgcccctac tgcaccaact   1500
cccccatctt tggctccatc ctgaaactca ccaagcacat caaggagaac cacaagaaca   1560
ttccactggc ccacagcaag aagtccaagg ccgagcagag cccagtctcg tccgatgtgg   1620
aggtgtcttc cccgaagcgg cagcggctct cagcaagcgc caactccatc tccaatgggg   1680
```

5055

```
agtatccttg caatcaatgc gacctcaagt tctccaactt tgagagcttc cagacccacc   1740
tgaagctgca cctggagctg ctgctgcgga agcaagcgtg cccccagtgc aaagaggact   1800
ttgactccca ggagtccctc ctgcagcacc tgacagtgca ttacatgacc acgtcgaccc   1860
actatgtgtg cgagagctgc gacaagcaat tttcctcggt ggatgaccct gcagaagcac   1920
cctgctggac atgccacacc ctttgtgttg tacccactgc accccgtgtgt caggaggtct   1980
tcgactccca aggtgtccat cccaggtgca cctggcggtg aagcacagca atgagaagaa   2040
gatgtaccgc tgcacggcct gcaactggga cttccgcaag gaggctgacc tgcaggtgca   2100
cgtcaaacac agccacctgg gcaacccggc caaggctcac aagtgcatct tctgtgggga   2160
gaccttcagc accgaggtgg agctgcagtg ccacatcacc acacacagca agaagtataa   2220
ctgtaagttc tgcagcaagg ccttccacgc catcatcctg ctggagaagc acctgcggga   2280
gaagcactgt gtgtttgatg ctgcgaccga aacggcacg gccaatgggg tacccccaat   2340
ggccaccaag aaagctgagc ctgctgacct gcagggcatg ctgcttaaga accctgaggc   2400
acctaacagc catgaggcca gcgaggatga cgtggacgcg tcggagccca tgtacggctg   2460
tgacatctgc ggggcggcct acaccatgga ggtgctgctg cagaatcacc ggctgcggga   2520
ccacaatatc cggccgggcg aggatgatgg ctcacgcaag aaggctgagt ttatcaaggg   2580
cagtcacaag tgcaacgttt gttcacggac tttcttctcg gagaacgggc tacgggagca   2640
cctgcagacg caccgggggcc ctgccaagca ctacatgtgt cccatctgtg gtgagcgctt   2700
ccccttcgctg ctgacgctca ccgaacacaa ggtgacccac agcaagagcc tggacacggg   2760
cacctgtcgc atctgcaaga tgccctgca gagcgaggag gagtttattg agcactgcca   2820
gatgcaccct gacctgcgca actcactcac gggcttccgc tgtgtggtct gcatgcagac   2880
agtcacttcc acgcttgagc tcaagatcca tggcaccttc cacatgcaga agctggcggg   2940
cagctcagcg gcgtcctccc ccaatggcca ggggctgcag aagctctaca agtgcgccct   3000
gtgcctcaag gagttccgca gcaagcagga cctggtgaag cttgacgtca atgggctgcc   3060
ctacggcctc tgcgccggct gcatggcccg cagcgccaac ggacaggtgg gtggcctggc   3120
cccgcccgag cccgccgacc ggccctgtgc cggcctccgt tgccccgagt gcagtgtcaa   3180
gtttgagagt gccgaagacc tggagagcca catgcaggtg gaccaccgtg acctcacgcc   3240
ggagaccagt gggcccccgga aaggcaccca gacatcgcca gtgccccgga aaaagacata   3300
ccagtgcatc aagtgccaga tgaccttcga gaacgagaga gagatccaaa tccacgttgc   3360
caaccacatg attgaggaag gcatcaacca cgagtgtaag ctgtgcaacc agatgttcga   3420
ctccccggcc aagctcctct gtcacctcat tgagcacagc ttcgagggca tgggcggcac   3480
cttcaaatgc cccgtgtgtt tcacagtctt cgtccaggcc aacaagttgc agcagcacat   3540
ctttgccgtg cacgggcagg aggacaagat ctacgactgc tcacagtgcc ctcagaagtt   3600
cttcttccag accgagctgc agaaccacac gatgagccag cacgcacagt gagggatcgc   3660
tcaacaggac acctctccgc agaaggcttg ccggagacgc cgtgggggagg gccatttgaa   3720
cattacatcc aatcaaagtg tcatttgcaa cccagatgta aaactctaat gatttggcca   3780
tgaggcgctg ctattataag cagctggaaa tgaatattaa tggcagagat taaaagtatt   3840
ccatgctcag tatttttat tgtcctgcta cagctagtgt gcttttagac tttccgccgc   3900
agactacatt tctagagtta gagaaacctg ctttttaagg ctattgtcct ttgttccttc   3960
atgtattata ttgatagttt ttaaaaaaga attagtgtga ttttttttct ttgcttcttt   4020
tttctctttc ttgttttttct tccccccccac cccccacccc ccttcggtta actactttt   4080
aattgcaatt ctaggtaatt gtgcatcgtg atgtgattgc ttggctattg tctgaatatt   4140
tcctttttaat tttttaatta aagactaatg ctttgattgg atttgccagt tcaccggaca   4200
gtgattaaaa ctatgtaatg aatataatcg gtttcagtgc aactggatgg tctgctttta   4260
aatgtgactt aatctgactg cagtaactag tacagttcaa taaagggaat ccatgcgaaa   4320
aaaaaaa         .                                                   4327
```

<400> 6429

```
gcaggctaat  tttttttta  tttttgtttt  gtagagctag  agtttcatca  tgttgcccag    60
gttggttttg  atcacgggag  tgatcctcct  gtggtggcct  cctaaagtgc  tgggatgaca   120
accaccatgg  ccagctggtt  tgtttcaatt  tgagtgacaa  aatttaggaa  tcggggctcc   180
agcttttcac  tgcagacatt  tattgtgggt  catcttccct  aaggcaccag  cagaggggga   240
acgggccaca  gcagggctgc  agccacggtc  tccagatatt  gcccagcctg  tccagctgca   300
gaggaactgg  gctgagtgtc  cgctggtgtt  cccacaccgc  ctgctggact  tcgttccatc   360
acctgataga  aaacgggctc  tgaggctggt  gtgaggatgt  gggtctcaga  agggtctctt   420
gagaggtcaa  agagcaaagg  tggatcgtgg  tggactactt  tttccccaaa  gcacgggcag   480
accttcttc   catagcaggc  accggctccc  tctggctgga  acacaggcgt  cacaaagtgg   540
actttccaca  ttgttcctct  gtcccgttga  tgccacctgg  ctgcgtgcag  aaacctctca   600
caataatgca  tcaggaactc  gtggtctgag  tgttgggctg  tccccaggag  caagggcaga   660
aggtcttggc  cgtcaatcac  tctgtcctgg  ggcacctcgc  tgcccgccag  ccggaccacg   720
gtggggaaca  cgtccatcag  actcgtgggc  tcgccaatca  ctcggccggc  cgggagcacc   780
ccgggccagc  ggaagatccc  gggcacgcgg  atcccacctt  cccatcctcc  catgcccttc   840
ccacctttat  aaattccatt  ccagccacca  tactgggtgt  ttccaagttg  attctctagg   900
gaaccgccgt  gatccgacgt  aaaataaatg  agggtgctgt  tgctcaaacc  ctccacgtcc   960
aaagtgtcaa  ggatccgtcc  taccatccag  tccatctcct  ttacgttgtc  cccatacagc  1020
ccgtggagac  tcttcccgag  gaagttctcc  atagtgataa  gagggatgtg  aacgtgtaga  1080
aaggaaacaa  agaggaggaa  aggcccatgc  ttattccttt  tgagaaagga  cgcaacctcc  1140
tgcagaataa  ggggtgtcgt  tctttggaag  cacatgggct  gctccgtgat  ggtgtggttt  1200
ctcatcagaa  agcaatcggc  atggacaatc  agagcaccca  caaaatagga  gcttgcgagg  1260
aggaggacgg  ccgaaagggc  tgaccagatg  accggcatcc  acgagacggg  tatcaggtgt  1320
gtgagcttcc  ctgctaccag  tgtgagggca  accaaggcca  ggacttggaa  gaggaagttg  1380
agttttgtt   ccaggttgac  acgcttctct  gagagttccc  agcgggcgca  atcacccatc  1440
aaggagaaag  gcattccgta  gaaatggtca  aagccatgat  ggagagggtg  gtggcaatga  1500
tcactggctg  actcacagtt  gagacccaga  tgccattttc  caatgagtcc  agtggcatag  1560
cctttctctt  ccagtatttt  tgcaaaagtt  gtctcatttg  ttggaagacc  tccagatgct  1620
ccggtccact  gaagaacacg  gtaaccaatg  ctggaaacca  tccctgatcg  cacagggtat  1680
ctgcccgtga  ggaaggcggc  tctgcttggg  gtgcacaaag  atgcggcaga  gatgtgttgg  1740
gtcagcttca  cgccgtcctc  tgcaaggcgg  tcaatattcg  gagtcctcat  ggtgttgttg  1800
ccatagcagc  caatgtcccc  aatgccaagg  tcgtccgcca  tcagaagaag  gatgttcggt  1860
cgggaggcgg  aaatgtcgct  ggaagctgat  ggtgccaaac  ttagcagtac  agcgagcatc  1920
gctggcagcc  agctcctgaa  acacaaacaa  gaatggtgca  gatgtaacat  gttgtctctc  1980
tctctacttc  ctctgctcct  gggctccttc  ctgaatcccc  gatcaagaag  aggaaggttc  2040
tctcccaaag  gaagcaagcg  tgaaggcaga  gagcacttgc  acaaggcttt  gagctgggaa  2100
tgattaactt  cgagtttgtt  tttccctacg  atttcgtacg  aaa                     2143
```

<210> 6430
<211> 1331
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)...(1331)

```
    <400> 6430
tttcgtaagg gagagagaga gggggactct gtgtgaggga aagaaaacaa tgtctcctgc      60
tctgcagctt ctgttcagga tcaatgtgac tctaagaaca aatggatgaa tgaatatcca     120
tatgaagaga aaaacaataa agaatatcaa cacctttgag aacagaatgt taatgcttga     180
tgggatgccg gcagtcagag tcaaaacaga gcttttggaa tctgaacaag ggtctccaaa     240
cgtccacaac tatcccgata tggaagccgt tcccctgttg ctaaataatg tgaaagggga     300
gcccccggag gactcgttat ctgtagatca cttccaaaca caaactgagc cagtggactt     360
gtcaataaac aaagccagga cgtcccctac tgccgtttca tcctccccag tttccatgac     420
agcatctgcc tcctcacctt cttcaacttc aacctcttca tcgtcttcta gtcgtctagc     480
ctcatcccca actgttatca catcagtatc ttcagcgtca tcttcgtcaa cagtattaac     540
tccagggccc cttgtggcct ctgcatctgg tgttggaggc cagcagtttt tgcacattat     600
ccatcccgta ccgccttcaa gtcccatgaa tttacagtct aacaaactga gtcatgttca     660
ccgcatcccc gtggtggtac agtcggtgcc tgttgtctac acagctgtaa ggtcacctgg     720
aaatgtgaac aacactattg tcgtgccgct tttggaggat gggagaggcc atggcaaagc     780
acaaatggac ccccgaggcc tatctcccag acaaagtaaa agtgacagtg atgatgatga     840
cctgccaaat gtgaccttag atagcgttaa tgaaactgga tctacggccc tttccatagc     900
cagagcagta caagaggtac atccgtcccc agtatcaagg gtccggggca atcgaatgaa     960
taatcaaaag tttccttgtt caatttcacc atttagtatt gagagcacaa gacgccagag    1020
gacggtcttg aatcccccag actccaggaa aacggcgtat tccacagatt gtgattttgg    1080
agggattgca acaaaagttg tacacaaaaa gttcttcacc tggaagggtt caccggagga    1140
cacatacagg agagaaacct tacaagtgta cctgggaagg ctgcacctgg aagttcgctc    1200
gttcagatga actgacgagg cattaccgca aacatacggg agtgaagcca ttcaagtgcg    1260
cggactgtga tcgcagcttt tcccggtcag atcatttggc cctgcaccgc cggaggcata    1320
tgttggtgtg a                                                         1331
```

```
    <210> 6431
    <211> 2878
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (136)...(1064)
```

```
    <400> 6431
gggagggctg tcggtgggcc agtctgcgta gcgacggccc gtcccctgcg cacggacgcc      60
gggaagaagg gggtggggcc acgtttgcgt ccgcgccatc aggcccgaga tagcggcgag     120
gtccgctttc agtgtatggt tttccctgcc aaacggttct gcttggtgcc atccatggag     180
ggcgtgcgct gggccttttc ctgcggcact tggctgccga gccgagccga atggctgctg     240
gcagtgcgat cgattcagcc cgaggagaag gagcgcattg gccagttcgt ctttgcccgg     300
gacgctaagg cagccatggc tggtcgtctg atgataagga aattagttgc agagaaattg     360
aatatccctt ggaatcatat tcgtttgcaa agaactgcaa aaggaaaacc agttcttgca     420
```

```
aaggactcat cgaatcctta cccgaatttc aactttaaca tctctcatca aggagactat      480
gcagtgcttg ctgctgaacc tgagctgcaa gttggaattg atataatgaa gactagtttt      540
ccaggtcgtg gttcaattcc agaattcttt catattatga aaagaaagtt taccaacaaa      600
gaatgggaaa caatcagaag ctttaaggat gagtggactc agctggatat gttttatagg      660
aattgggcac ttaaggaaag cttcataaaa gccattggtg ttggactagg atttgaattg      720
cagcggcttg aatttgatct atctccatta aacttggata taggccaagt ttataaagaa      780
acacgtttat tcctggatgg agaggaagaa aaagaatggg catttgagga aagcaaaata      840
gatgagcacc attttgttgc agttgctctt aggaaacccg atggatctag acatcaggat      900
gttccatctc aggatgattc caaaccaacc cagaggcaat ttactattct caactttaat      960
gatttaatgt catctgccgt tcccatgaca cctgaagatc cttcattttg ggactgtttt     1020
tgcttcacag aagaaattcc aatacgaaat ggtacaaagt catgatgatt ccctgagtaa     1080
caaagggaaa tgaaaactgt ttgtgatctt ccgtattcac tgaaaaataa atgcttgttt     1140
agtatcaaat tttatttcac gaaagttttt ttaaagaaca gaaacttttc caattaaaaa     1200
aaaaaagcag acttctggtt caagatagct cactggaata catgtttacc ttttttctttc     1260
ctaaattgca ttgaattgat aggaaggatg gcggaatctt aaagtgatac atgctaactg     1320
tagaaaaaaa tagaaaatgc acataagcaa aaggaaacat ttaaatgcta tctttcaaag     1380
ataactactc ttaaaacctt gagtatcttt tcagaccttt ttcttggcaa atgaatccat     1440
attgacatat ttgatttttt taaaaacatg gaaacgtact gttttgtaaa ttcttttttaa     1500
ctgcacatct actgttcata aatatacctc tgtaacataa ctttttgtgg ttctaatgta     1560
ctctgttgta tagctaatac aagttaggat gcttttggcc agaggtaaca gtgtccaaat     1620
ataattggcc taagtaacct aggaaattgt ttgacataac acagggttca ggggtgtcat     1680
taaagacaca ctttttttgc cttgacctca gttggtttgt tttgccttag gctattccac     1740
ctctcgatca caagagctgc tgctataact tccagtttta catctttgta aaattgtatc     1800
tcaaaggcag aaaaggccat ttcgtctctc atttgtttta tccatgagga agatttttaa     1860
caaaagcctc cagaagattt cccctcagtt tccattgact tagatcaggt tacagagaaa     1920
ggcaatgtct gacatttttg gtctctgtta gaagtagact ctgttgaaaa gaaagaagct     1980
aagctaggtg tgaagaatgg aattggaagc ccactgcctt cccataagaa aggtttacca     2040
taatttactc acttttttct gtgttagaca ttttgattat ctgcagttta ttactacaag     2100
cagtggcaga gtgaatgtcc ttgtacattt tgagttacat gcttaattat gtccttgaga     2160
aagtttctaa aagtggaatg attggtttga ctggttcata gggctttaat tatacaattt     2220
acccctctaa ttagtactat atgtatgtga cttccctccc cctgccagaa tactccttgg     2280
tcaattgtag gtattctttt tggtttaatt tttgccaatg taattaaaaa atggtatgtc     2340
attttaaaa tttgtatttc tttcattaca aataagattg ttatgtcagt attgttattg     2400
gcttttcgta ttcctcttaa cgtgaaccgt ctgttcattg tttttacctg ttttcgtttt     2460
agcaagtagt acttaattta aagtgtgaac ttaatatata agatgccagg accatcatat     2520
tgatgacaaa aatctattat gtggttgtag tgcatgtctt ggagttaaac tcttaagtat     2580
caagaagtaa aataatttca ttgtttctgt tactaacatt aaaagtgtgc aaattgtata     2640
aaattaggta cttcgattag taaaagaaaa aaatttgaat gtttttttttt tttatttttat     2700
taagcatgcc cagttatgcc aagcatagta aataaaggtc aagtagcatt tataataaag     2760
gaagtattgt tatccctagc atgagtgtaa tggtgatatg aaaaactttg tcttgtcatt     2820
ataataataa aaaaatgaac atttattatg gaattttaaa aaaaaagaa aaaaaaa        2878
```

<210> 6432
<211> 1376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (257)...(1050)
<223> similar to gi5881842 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

5059

```
        <400> 6432
gcgcttgcaa ctccacctca gcaggggtct ctcagtcctc ttaaagcaag gaaagagtac    60
tgtgtgctga gagaccatgg caaagaatgg tccagagaat tgtgaagact gtcacattct   120
aaatgcagaa gcttttaaat ccaagaaaat atgtaaatca cttaagattt gtggactggt   180
gtttggtatc ctggccctaa ctctaattgt cctgttttgg gggagcaagc acttctggcc   240
ggaggtaccc aaaaaagcct atgacatgga gcacactttc tacagcaatg gagagaagaa   300
gaagatttac atggaaattg atcctgtgac cagaactgaa atattcagaa gcggaaatgg   360
cactgatgaa acattggaag tacacgactt taaaaacgga tacactggca tctacttcgt   420
gggtcttcaa aaatgtttta tcaaaactca gattaaagtg attcctgaat tttctgaacc   480
agaagaggaa atagatgaga atgaagaaat taccacaact ttctttgaac agtcagtgat   540
ttgggtccca gcagaaaagc ctattgaaaa ccgagatttt cttaaaaatt ccaaaattct   600
ggagatttgt gataacgtga ccatgtattg ggatcaatcc cactcttaat atcaggaaca   660
tttgcaaagc agttgcatca caactttgca tttattatct tagtttctga gttacaagac   720
tttgaggagg agggagaaga tcttcacttt cctgccaacg aaaaaaaagg gattgaacaa   780
aatgaacagt gggtggtccc tcaagtgaaa gtagagaaga cccgtcacgc cagacaagca   840
agtgaggaag aacttccaat aaatgactat actgaaaatg gaatagaatt tgatcccatg   900
ctggatgaga gaggttattg ttgtatttac tgccgtcgag gcaaccgcta ttgccgccgc   960
gtctgtgaac ctttactagg ctactaccca tatccatact gctaccaagg aggacgagtc  1020
atctgtcgtg tcatcatgcc ttgtaactgg tgggtggccc gcatgctggg gagggtctaa  1080
taggaggttt gagctcaaat gcttaaactg ctggcaacat ataataaatg catgctattc  1140
aatgaatttc tgcctatgag gcatctggcc cctggtagcc agctctccag aattacttgt  1200
aggtaattcc tctcttcatg ttctaataaa cttctacatt atcaccaaca gcctgattgc  1260
tgctgaacac actgggtaag tgtttgctga gaatattcac agcaactgaa atggagcaga  1320
cccgtcaaac atagatgact atgctgaggc tcagaaaaca atgccccaaa atgaaa       1376


        <210> 6433
        <211> 1623
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1624)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (1432)...(812)
        <223> similar to gi2982311 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters


        <400> 6433
tgcgaccgcc gcagtcaagg gcgacttgtg gttggagtga gcaggctcct ggcttccagg    60
gcagcaaaaa ccccaagca ctttctagaa agaatgtgtt tcattctgac tgtaaacaca   120
tttgtaaatg ctgagaccaa accccgactt atggatcctg agccacggcc gtcactggcc   180
ccgctaagcc tcatcaccac acggccaggc cagaccagca cccgcggacg ccagctccac   240
ccctgggccc cgaggttccc acccgctgag gagccgggag ctccgaggaa acgcgccagg   300
```

```
gagctccaaa gaacgcagga gcagcccgcg gttcggcagc aagttttgca tttcttaagg    360
tgaccacatc taataaaatg aaaaacgggt ttactaaaac aggtccaaag acaacacgga    420
agataagcta caaatccagc acacaaggcc cacccacacc agccccagcg gcccgtggcc    480
aggacagggc tgaggctcca gtctcctcca aagcccagtc acacattttg gtttttgctt    540
cccctttcag gtttttaaaa gctaaaccta ggagcctggt gggtctgcct gtgctgggca    600
gtgtgtccag cctgccgagg tcacgctctg gtgcgcggtg ccctcagtgg cgccttgggt    660
ctcggcgcct gggcctcact cctgcgcgat gctcctcagc acgtacttga ccgtgtaagc    720
aaaggctgca aacccaacta tcacaaacaa gttcgccagg cgccaccca ggagtccgtg    780
gtgccggttg cctgctgga ccctgcgag gtttgggacg gcccccggcg catgcccgtt    840
gagcagctga atcccgttct ggacgaggtg cgtctccccg tctggaacca cgtctggcaa    900
ggggagagtc tggggtctgc tactgagttc gtcttgtgct ttctgttttt gtttaatctc    960
ctccacgact tcaggaaata attcacaaaa gactttatct ttcaaattaa atgctaaact   1020
ctgcactgcc agttgtcttt tcgtgaagtc cgacgtctct atactgccca gggtgggccc   1080
cttctccacc atgaagctca ggagcccagt caggatggtg gagacagacc aggccgggtt   1140
ccacgtgtcc gggtggaaat ccgtgataga aagacacagc ctggtgttgc acttaaacct   1200
cccgttggga gtgatcatat agatactggg aggtttgaaa ggaaattctc tgggaaaaat   1260
tagttttcca tgataatagc caccttcata aggggtcatc tctgggcctc ggacgacata   1320
gtgccactcg agaatattcg aagggagggg ctcggcacag atgtaaggca ccgggtcttt   1380
cttaatgcga aggtagtcct gcttcagcct ctgggttgcc gtggtcggag ccctcttact   1440
gctggtgctg ctcatctctc cctgtcgctg cgcgtgggcc gccgccgcgc tcaggctcgc   1500
cgtagtcgag gccggagcag ggtgcggaaa agcggggccc gcgcccgaaa cagccgcacc   1560
gccccgggat tgggcgaatt ccaccgcact gactaaggac tacatatnnn nnnnnacctc   1620
tct                                                                  1623
```

<210> 6434
<211> 1891
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (178)...(1397)
<223> similar to gi5231137 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6434
```
tgcaggaatt cggcacgagg ctgagcggat cctcacacga ctgtgatccg attctttcca     60
gcggcttctg caaccaagcg ggtcttaccc ccggtcctcc gcgtctccag tcctcgcacc    120
tggaacccca acgtccccga gagtccccga atcccgctc ccaggctacc taagaggatg    180
agcggtgctc cgacggccgg ggcagccctg atgctctgcg ccgccaccgc cgtgctactg    240
agcgctcagg gcggacccgt gcagtccaag tcgccgcgct ttgcgtcctg ggacgagatg    300
aatgtcctgg cgcacggact cctgcagctc ggccaggggc tgcgcgaaca cgcggagcgc    360
acccgcagtc agctgagcgc gctggagcgg cgcctgagcg cgtgcgggtc cgcctgtcag    420
ggaaccgagg ggtccaccga cctcccgtta gccctgaga gccgggtgga ccctgaggtc    480
cttcacagcc tgcagacaca actcaaggct cagaacagca ggatccagca actcttccac    540
aaggtggccc agcagcagcg gcacctggag aagcagcacc tgcgaattca gcatctgcaa    600
agccagtttg gcctcctgga ccacaagcac ctagaccatg aggtggccaa gcctgcccga    660
agaaagaggc tgcccgagat ggcccagcca gttgacccgg ctcacaatgt cagccgcctg    720
caccggctgc ccagggattg ccaggagctg ttccaggttg gggagaggca gagtggacta    780
tttgaaatcc agcctcaggg gtctccgcca tttttggtga actgcaagat gacctcagat   840
```

5061

```
ggaggctgga cagtaattca gaggcgccac gatggctcag tggacttcaa ccggccctgg      900
gaagcctaca aggcggggtt tggggatccc cacggcgagt tctggctggg tctggagaag      960
gtgcatagca tcacgggggga ccgcaacagc cgcctggccg tgcagctgcg ggactgggat     1020
ggcaacgccg agttgctgca gttctccgtg cacctgggtg gcgaggacac ggcctatagc     1080
ctgcagctca ctgcacccgt ggccggccag ctgggcgcca ccaccgtccc acccagcggc     1140
ctctccgtac ccttctccac ttgggaccag gatcacgacc tccgcaggga caagaactgc     1200
gccaagagcc tctctggagg ctggtggttt ggcacctgca gccattccaa cctcaacggc     1260
cagtacttcc gctccatccc acagcagcgg cagaagctta agaagggaat cttctggaag     1320
acctggcggg gccgctacta cccgctgcag gccaccacca tgttgatcca gcccatggca     1380
gcagaggcag cctcctagcg tcctggctgg gcctggtccc aggcccacga aagacggtga     1440
ctcttggctc tgcccgagga tgtggccgtt ccctgcctgg gcaggggctc caaggagggg     1500
ccatctggaa acttgtggac agagaagaag accacgactg gagaagcccc ctttctgagt     1560
gcaggggggc tgcatgcgtt gcctcctgag atcgaggctg caggatatgc tcagactcta     1620
gaggcgtgga ccaaggggca tggagcttca ctccttgctg gccagggagt tggggactca     1680
gagggaccac ttggggccag ccagactggc ctcaatggcg gactcagtca cattgactga     1740
cggggaccag ggcttgtgtg ggtcgagagc gccctcatgg tgctggtgct gttgtgtgta     1800
ggtcccctgg ggacacaagc aggcgccaat ggtatctggg cggagctcac agagttcttg     1860
gaataaaagc aacctcagaa caaaaaaaaa a                                     1891
```

<210> 6435
<211> 1369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)...(669)
<223> similar to gi4929761 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6435
```
cagttagtgg tgctcaacgt gtacgacatg aattggttcc ttccgatggg ttcttggtct       60
cactgacttc aagaatgaag ccgcagaccc tcgtgtattg gatgaacgaa tatacctcat      120
ccattggaat tggagttttt cattcaggaa ttgaagtcta tggcagagaa tttgcttatg      180
ggggccatcc ttaccccttt tctggaatat ttgaaatttc cccaggaaat gcttctgaac      240
taggagaaac atttaaattt aaagaagctg ttgttttagg gagcacggac ttcctagaag      300
atgatataga aaaaattgta gaagaactgg gaaaagaata caaaggcaat gcttatcatt      360
taatgcataa aaactgcaat tcattttttc tttcagcttt tatccagaga ttctttgtgg      420
ggaaaagaga ttccctccgc tggaatcaat ccgactttgc cctactttca gcttccttgt      480
ataccctttt cttacagagt tgcctccccg aagggaggtg ggctcacgcc ccgcagcccc      540
tgcagtccta gtgtccagcc aagaacttcc aggatgaact gggaggaagc agaggatgct      600
gccgcatccg ctttccgtgg caagcagctg ccagcaggct ccagacccgg ggcgccacac      660
taaactataa atgtctccaa aggtcacaca ttcagaactg tctctggcag tcgaatatca      720
ctagagaaaa gtaaacagag aagcatcctt tagatatttt gtatgcaaag atggctctcc      780
cccaaatccc agtttttcag ctcaggatta tatttgtaat caaaaaaaaa aaaatcactt      840
ggcgcaggag ggagaacttt gtaagaagct gccctatgtt ttttttatcc actcgtaaat      900
ctggatttat ttcttctgtt ttatacaagc tctgttaagt tatgtttaca gtatcttgta      960
tcgctgttta caaatcttgc atggactcct gccacagtga aagaagaaaa tcttcatgtc     1020
ttcaaaaatt aggcaggtaa tctttgtata cttctgacaa ttgccagatc tatggcataa     1080
ataggcacac aaaaaggtac ttaaacagtt atagtcacca tcacctgctt cagaatggtc     1140
```

```
ttttagattt gagtttgttt tgttaaagtt gttggcacca ggatgcagag aatcatactg      1200
gcctgaggtg aaggagcaca cagccctgag ggcttggaac cctgggtcca gttcctcttc      1260
acaccccctt ccactctgag tagcacatct ccccaggtgc ccatggaaca cctgctttca      1320
tcccaaatat ccgtccacct aggcggggtg gtatgttctt acgccttt                   1369
```

<210> 6436
<211> 3289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3046)...(382)
<223> similar to gi639693 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6436

```
tgccattgta cattctttat taaacatcaa tactgaaaac agatttactg acatatgtat        60
ataaattata atcaaaactg ggaaaagggg acaaggaaat tggtaatctc tctctctcat       120
gcgggtggtg cgatctgggc tcactgcaaa cctccaactt cctgggttca aggcaattct       180
cctgcctcaa gcctcccaag tagttgaaaa ttaccaggtg tgcaactacc acacccggct       240
aaattttcgc attttttaata gtgacaggtc ttcaccatgt tggtcaaggc cggtctcgga      300
actcctgacc tcagatgatc caacccgcct tggcctccca aagtactgga attacaggcg       360
tgaaccatgc atggcgccgt ggccttcgct ttctttttct atgtcctcct ccttcactat       420
cgtcttcata ataaaagatg tctcgaaatg ggaaacttg cttgggtgct gcaggagtct         480
ggattttagt gcctttttc tccatcattt tttctaactt ttccttcagc aaaggtagag        540
tcgtctcata aaggtagtcg atgatctctg gaaaagtctt tttctgccaa aatggaacat       600
agacagcttt cagcctagaa aatttagttt gaacgtaaga tggaggaaca tcacctatgg       660
cactagcaag atcttcccag tctatttcat tagtatcttc cacatttatt tcatacaacc       720
tttcaataag gctgaccttg gcccgcaggg cattcatgcc atagtatata cgccgaccat       780
tagtcatcct cttggttaga atttctgtcc acttactttt acactgcatc caatttctgg       840
tttgcacttt agcttctact tctacccaag atatgccctt gtagagtttt tcccgaacaa       900
ttgataggca actttcagga tttttcttgga gtttggaatc cacctctttt aactcctggg      960
gagacatctt cttcagaatc acttcttcga cagccttgat tagtttccgg gtttcagact      1020
tactccaagc accacgattt ctttgactgc tgatctgtga gaacttgagg gccacggaga      1080
ggctacgtcg ggccaccatc tcaccaatcg tcttccagtc attcccaagg agagaatggt      1140
acatctttaa cttctcagta tctccttcgc tatacctgcc tttgtaattg ttgacatcga      1200
acatcttctt tgctcgatag tatataagtt tccagggccg ggcaatgttc cttaccaatg      1260
tgtaatctaa acgagtatct ccttttcaag ttggtgatca cagattttc ctcaggatat       1320
ctgtccgtgt acaggagctt gtctgcactc tcaatgcctg tcagggctag aaagtcttcc      1380
acatttttct ctaactgctt attttccttt acagaaaact tgccaaattt aatagcgaca      1440
ccttgtgctt taaattcctt aaaccgttcc aagtcgtccc ggtacatccg cttgattgtg      1500
ctggtggccc tgtccttgat gttaggaatg aactcctgaa gctgtttcac ggcagaaccc      1560
aaatccgcat ctgaatcatc ggcatctcct gaatctgcag ataagtatct tatttcggaa      1620
tcttcagctg tttccacatt gtgttcttca tttgcaggtt ctaaccttgg cgcctcttgc      1680
acgtgcttgc ttgccaaaca ggcctgggtt ttcttttgtc ggggcctaga tttcacacct      1740
tcttccatca tggcgccatc accttctact gaatcaaaga gtgtgctctc agagttctta      1800
ctgggcactg aaaaatcatc accagacact cgtgcccttt tgacagacgt aagcttcctt      1860
ttcttagact tcttctttgt actgttggat tccttgaacc cctttaagagc tgtactgcct     1920
tccacagtcc caacctcact gcccacctgt gatccttcag ggtatgcact ctcgaggctc      1980
```

5063

```
tcaggcatgg ccactgcctc aaattcctgg tgattggact ttttcttttt tttcttagac    2040
ttgtttttat aagcaggtgc tggtattcct gcagtttcac catgcaggcc cacagcaggc    2100
cggcgattcc tgcatatcag ccccaacctc actgcccact tgtgatcctt caggcatggc    2160
caatgactca aattcctggt gattggactt tttcttcttt ttttcttag actttttttt    2220
gtgagtaggt cctagtagtt gtggagtttc atcatccaag cccacagtag gctgggattc    2280
ctgcatatcg gtcccggcct ctctgcctgc ttgcgatcct tcaggcatgg ccaggtgtct    2340
catattcccg gttactggac ttttttcttt ttttcttaga cttgttttta tgagcagatg    2400
cctggtagtt ctgtaatttc accccctgga cccacagaaa gccaggactc ctcctgggtg    2460
gggaattctg actgaggcag ggtgtccctt tgcccgctgg ctctcccagg atgcagcttt    2520
cctctgatgc ttttattct ttttctccct aactttactg tgcagggctt ctgatttatg    2580
tgccatgtga cttagcaagt acctgaaatt tgtctgtttt aggctttcct tggtaacttc    2640
tgttctatgc tcatatcaac acaaacaaca tcaacatcct ttctaaaatg ctttggtgtg    2700
ttgttaatat tttctttatc cacaaggaca actgtaacac ctgcttcctc gtccacctcc    2760
aaagcactat atcttctctt ttttctcttt ttgagtgtgg aagtggcatt tgcagtctca    2820
tcacagattc tggatttttt caaaggagaa gaaatgagat gctggaaatc ttttttcctc    2880
tttttcctcc tagttatttg agactgttca ttcaccaggg aggagtctct gaaaatttcg    2940
tgggaatgtt tctgaggtct ttccttatgt atagaacact ttttctttt cttgtcagaa    3000
actggagtgt ggatttcaaa tctgcttgat tctccttcca ttttattcca tggagaagcc    3060
attagactcc attcgagtgc aggatccaca aaagggcttc gcagtgggga tatcaggtat    3120
ccactgacct caaaccagaa gttggcctct ttgtgaaaga agttggatat gccttgttag    3180
tgtccaacaa agagcggacg ttctgcgata cactggaata aatttcacaa gccactaacg    3240
ttaatactca catacagggt gtgtgcccac gcgtccgcgg acgcgtggg              3289
```

<210> 6437
<211> 3470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3471)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (853)...(1407)
<223> similar to gi5262638 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6437
```
ccactatcca agtggaggaa ttccaggctc aagacagcgc ttccaggttc agtttcaggg     60
tctcgccggc agccccagcc ggcgggcgcg gagcgggcag cggggcccgg atcgcaggct    120
cctctggggg ccccggagtt gggaagcggc gtccgggagc ccccggagga ggatgggctg    180
cagacacagc aggctgagca gctgcaaacc cccgaaaaag aagcgccaag aaccagaacc    240
agaacagcca cccagaccag agccccatga attaggtccc ctcaatgggg acacagctat    300
aactgtccag ctctgtgcat cagaggaggc tgagcggcac cagaaggata taaccagaat    360
tctccagcaa catgaggagg aaaagaagaa atgggcacaa caggtggaga aggaaaggga    420
gctagagctt cgagacagac tggatgagca gcaaagggtc ctggaaggaa agaatgaaga    480
ggccctgcaa gtcctccggg cctcatatga acaggagaaa gaagcgctta cccactcttt    540
ccgggaggcc agttctaccc agcaggagac catagacaga ctgacctcac agctggaggc    600
```

                              5064

```
tttccaggcc aaaatgaaga gggtggagga gtccattctg agccgaaact ataacaaaca      660
tatccaggat tatgggagcc ccacccagtt ctgggagcag gagctggata gcttacactt      720
tgtcatccaa atgaataatg agcgtattca tgagctggac aagcggnctg atcctcatgg      780
aaacagtgaa agagaaaaat ctgatattgg aggaaaaaat taccaccctg caacaggaaa      840
atgaggacct ccatgtccga agccgcaacc aggtggtcct gtcaaggcag gctgtcagaa      900
gacctgcttc tcacgcgtga ggccctggag aaggaggtgc agctgcggcg acagctccag      960
caggaggaag ggagggagct gttgtaccgg gtccttgggg ccaatgcctc gcctgccttc     1020
cctctggccc ctgtcactcc cactgaggtc tctttcctcg ccacataggg tgcagggcct     1080
gggcccacca cgacgcctga agtcacagct ccttccaagg tttttctgga gaagacagca     1140
ggagcctctc agttcttttc caggaaggaa cgagggtggg agcgagatgg agatcctggg     1200
tgtgtgccca gtgagccctg gggccttgag ttacatggaa tcacccacaa gggttcttgg     1260
aaggccccga gaaagcgtct tcccttgaag ttgggccaaa gggaataaag caagaggaga     1320
catttcctcc ctgccccagc actctgtccc aatccgagaa gttccgaggc tttcccaggg     1380
gcagtctgtg tcacgctggc catttgacat aaaggagaca gcccctggtc ccagcttgtc     1440
agctctgctg ccgacttgct gacttatcaa cttcctctag gtgtttccac tccaccctgg     1500
cctgctcaga gcctcagttt acccctgcat taaaatggtg gggggactgg tcaaaggact     1560
cttatgtcac tgcagtgtcc cattctagga ttgtctgaag gccagagtag gggttggggg     1620
gagtgtggac aaaccccgca aatcagagtg gggaaggtga gtggtagaga gggggtctct     1680
gaaggccctt ggggctgaca gggccaggca gcctccccag ctgaggcatc attcctgggc     1740
cagagtcgtg tccaccaagg gacagtagcc agagctcctc ttcctttacc aggcaaggtg     1800
catcccctca gccctcctgg cccttcagtc ttggtgccac ctgggcacag gggcaagctt     1860
ggtggttgtg agtccattca tctatcagag ctggaacctc atccctgcac agatgaggaa     1920
accaaggcat ggagcagttc ccagagtcga atctagatct catctgtcat ccgggtctta     1980
tcctttgctc tgttttttctc ttcaggctct ggaaaatcag atctgtgact taatcttcct     2040
ctccctggcc ctcacccact tagtttcttt ttcattcctg ctccctgcct taactcctcc     2100
tcccactgcc cctgatccca ggcccaggct tttacaacct ggtgctcagc ttccccatca     2160
gtgaaaaggg gtggctagag taactaacct cagcaggccg tccagtcctg atagtctgtg     2220
gatttcggat ccttctcagg aagcttcatg tctaatggag actataatta taactcctgt     2280
tctgcataga gcatttgcat caaaggcttt ccatacccct ccctcccctg gtcctcataa     2340
gatccttgaa gcaggttcct attcctcatt ggcaacatgg caaacagatc acaggagtca     2400
aagggccttg ctcaaggtcc ccagcttcag ccccaggccc taagccagcg tcagaacagt     2460
caatctgcat ttttcatcag tcattctata gtgacatcat cccagactgc cttctgtatt     2520
cccctgtgta cagtctcctt ctgtttctag gtttagaagt tcagaggtga ctgtgtttct     2580
ccatttccac agccaaatgg gggaagaggt gaggctaggg gagtgctgtg ctgattctcc     2640
agccatggtc agacaggtca cccaggagcc tcgaggaaag ccctggaggg aatcacatgt     2700
gtactttttc atgaagcttt ttgcaaagca catctgcgat acactagttt attgaactaa     2760
tgtccaggag tagacgtgat tggtggccaa gttatttggg gacacctaaa cagatcagtg     2820
acctgaatga cttctcagaa cctttaatat gccaatgtgt gtggcaaact tacaagaagg     2880
gagctaagta tccagcctct cccaaacctc tttgaacaaa gcttctgtcc ctcccacacc     2940
tctcacctca caggcacatc aggctgcaga atgcgcttta gaaagcattg ttttagtcca     3000
ggcacagtgg ctcacgcctg taatcccagc actttgggag gccgaggtgg gtggatcaca     3060
aggttgggag attgagacca tcctggctaa cacagtgaaa ccctgtctct actaaaaaaa     3120
tacaaaaaat tagcttggcg tggtggtggg cgcctgtagt cccagcagct gggaggctg      3180
aggctggaga atggtgtgaa cccaggaggc ggagcttgca gtgagccaag atcgcgccac     3240
tgcactccag cccgggtgac agagcaagac tccgtctcaa aaaaagaaa agaaaaaga      3300
aagcattgtt ttaattgaga ggggcagggc tggagaagga gcaagttgtg gggagccagg     3360
cttccctcac gcagcctgtg gtggatgtgg gaaggagatc aacttctcct cactctggga     3420
cagacgatgt atggaaacta aaaagaacat gcggcacctt aaaaaaaaaa     3470
```

<220>
<221> misc_feature
<222> (854)...(317)
<223> similar to gi4572554 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6438
tttttttttt ttaaaagtat ttattatagt aaaggttact gttggaaaag atgaggggct   60
ttggtcgcat atgttgttgg gcatttgtct ttagaacgat tggacattat ttgcatcatg   120
aattgtaatt tttatgacta tgcataattg gtttttttcc tgacccttgg aatcgttagt   180
ttcatgtaac tttttaaaaa attaaaacat tgcagactaa atgtactgat aagtacatac   240
tgaacacatt taattaccca cagtaattaa aaagtcctga tctttacttc ttaaggatgg   300
aaaattcatt aacttgcaat ctctgggatt tctctattat ccacaatgag agtatgaata   360
atcccttcct tccgcttccc cactactgga cagcctttat gtaacaggtc atgggtcccg   420
atactgaagt gagtttcagt cccatcatct acaaactcac ccgctgtctc caatttttta   480
ccattgcacc atacgtccat agcatctttt tccaaaacaa ttctaaagtt ctcaccatcc   540
atgtgtaata cccaagtatt ggtggttttt gatctgtcct ccatatactt cttgagactt   600
ttcccattaa tttccagagt atattcataa gcaaaaccac tgatagcgtc tatatttatg   660
gtcgcttttg tctttgcagc tccaacatag aatgtttctt tgcccactaa tttgaacatc   720
cactcttttc ttatctcttc ctttccatct acatatacta ctcgtttgcc tgatgtagtc   780
ccatgttcaa attcgatctt gtggactccg tcacttaaag caacatccca aacagctacg   840
agatctgtca ttttttctag gctgtaagga gggctgtgct ctgtgggccg cgggaggctc   900
tggggtaggt ttcaccaaac aaccggttgg ttccgactcg gctgcgtagg ccgcgtggcc   960
ttgctcccct ggccgagaaa caggcgcagc cggcgcggag gttgaaagct ctgcaggcgc   1020
gagtac   1026

<210> 6439
<211> 1874
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (116)...(695)
<223> similar to gi189701 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6439
cggacgcgtg ggcgaaccct gaaccctacg gtcccgaccc gcgggcgagg ccgggtacct   60
gggctgggat ccggagcaag cgggcgaggg cagcgcccta agcaggcccg gagcgatggc   120
agccttgatg acccccggga accgggggcccc acccgcgcct ggtgacttct ccggggaagg   180
gagccaggga cttcccgacc cttcgccaga gcccaagcag ctcccggagc tgatccgcat   240
gaagcgagac ggaggccgcc tgagcgaagc ggacatcagg ggcttcgtgg ccgctgtggt   300
gaatgggagc gcgcagggcg cacagatcgg tgcgtgggga gggttgggcg ttcctgaccc   360
cgactgggag gtcagcccga gagactttgg gtccctgggg gtgcgacggt gccccactac   420
cagcaccggc cccagggtgc cccaccgctg tgggctgcca ccctcacgcg tacccccaca   480

```
taccaggggc catgctgatg gccatccgac ttcggggcat ggatctggag gagacctcgg    540
tgctgaccca ggccctggct cagtcgggac agcagctgga gtggccagag gcctggcgcc    600
agcagcttgt ggacaagcat tccacagggg gtgtgggtga caaggtcagc ctggtcctcg    660
cacctgccct ggcggcatgt ggctgcaagg ttataaacca cctcctttcc agacgggagc    720
ctataccgca catgcagcaa ccagtccatc cacaggcagc tcccaacctc aagcctggcc    780
caaagcctcc aagaccctac caaggcttct ccccaccctg ctccccagca cagttctccc    840
cacccgttc cccagcacag cgcttggggc ccctctggct ccagaccagg ccccttggag    900
caggaaaaag atccactgat ggaattcaga cccctttccc cttgggtccc cagacagctc    960
ccccaaggga ggagctgagg acttccctcc ctctgcccca agccttgttt ccccaaggac   1020
aggtaccaac ctcctcccct actgacactt ctcaaccaag aaaacttcct ttccattccc   1080
tcaccagctg ggcaccccta tagctgctta aatactttcc aaatccagct gcactcctag   1140
ccagggaagg tgaagggatg cacagaggtg ggggagggggt actgtgcagg gtactcagca   1200
tccctgacca ccaggtgcca atgatcagcg gacgtggtct ggggcacaca ggaggcacct   1260
tggataagct ggagtctatt cctggattca atgtcatcca gagcccagag caggtacggg   1320
gcgccacgga tcagtcattg atccaggttg atgatggaga ccctggccag aatcactaaa   1380
agatcactgg tggatcatta gggtcactaa tgagaacact ggtcaaggtt actcatgagt   1440
cactgggcct gggccgaaat catcagtgga actttgatta ggatcataaa atgggaagtt   1500
ggtcaaaatc acagatggct ggcggggcac ggtggctcac acctgtagtc ctagcacttg   1560
gggaggccga agagggcaga tcccttgaac ccaggagttc aaaaccagcc tggataacac   1620
ggcaaaaccc catctctaca aaatagttcg ctgcgtgtgg tggtgcacgc atgtggttcc   1680
agctactcag gaggctgagg caggaggatc acttgagcct gggaggtcta ggctgcagtg   1740
agccgggacg atgccactgc actccagcct gggcaacaga gtgagaccct gtcccagcac   1800
tctgggaggc agaggagccc agttggagat cagcctgggt aatatagtga aacttgatct   1860
ctacaaaaaa aaaa                                                     1874
```

<210> 6440
<211> 2066
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1571)...(485)
<223> similar to gi4929573 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6440
```
ttggggccgg ctgccttaaa gcagtgaaaa agaaagcaaa tagcctggcg tgaatgccaa     60
aatgaccgct caacaaggac agctggatag atacgggcag agaatggaac agagtatgga    120
cagaaggggg gcagtgataa accccgtctc ctccccgcta cacaatggga aatgaggaga    180
tgctggaagg atcaacggcc ggatgatcaa caaccttaac aaaattaagg gcagacgcag    240
gggaccgcgg cagcggccat gaggcaggtg ggaagcaggc acagtgatga gccggctgag    300
gctgtgggat cgtttattgg ggctctgtcc agccaggctg cagcacccgc ctgggcctgg    360
cccggtgcca ccaggtgccg ggtgggtgga ggggagaaag tgcaggagcg gccgccgccc    420
ctagggctcg gccggctcct ggtcctgtct ccgtctctct gaagcggtgc ggcgcttcag    480
cgtagagcga ggtgtcgtcg tcgctgccct tcgccgcccg cgccgcccat cccgctcctc    540
tctgctctcg gccaaccgcg ctctcgtcga tgttctccag tggagtccgc atgctgcacc    600
gacagctccc gacagcgcca ggctcggcaa cgggctctgc tccgggtgcc agccacggct    660
tgaagtgagg ccaggtgctt ctgtttccac tcggggtact tgaggcacgc cttgtacatc    720
ttcttcatgg ccttgggagc caggaactga gaagatttat tcaccaccca cttgggtaag    780
```

5067

```
gagcctttgg ggtccacctg ggccaggtag gtgatgacgc agctcttggg ccctgtgctc    840
tggatgaggt agcccgtctg gatggacaca gctcggacca agtctttccg aggtgggtat    900
ttgggatgtt tgactgagta gttcataatg atgtaatcag cgcccatggg gagccaggag    960
cggagggtga tgacatcacg gttcttcagg ggcttgggac acctccagga gtaatagccc   1020
acgtcagcgt tgactgtcaa gcgggcgatg tcaaaagtct caatgacgtt gctgtcccat   1080
ttcttgcggt actcaatgtc gtgtaggacg tcgtagagtg tctcggctgg cacatcacag   1140
cactccatcc ggcacttgat cttgtgcagc gtccgatcca tctccacagc ctgcacccag   1200
acagacaccc cagccctgct ataggtcagg ttccagccca cctcagcctc acactctgac   1260
cggaagctgc gaaagtcttg gtcatcgggc acctggacac tctcacggcc caggaccggc   1320
cgaggccctt ggggctctgt agaggccgcc agcttctcca tggggagtgt ggggaggccc   1380
agggccctgg tcctagtccg gctctcctgg gtcctccgcg gaggctccga caacgtcgac   1440
gcggctgcag atgctgacgc caccttcctg ggacctgaga agcagggtct gtacagctcc   1500
agcaacactc tccttttcct ccagaattct ccagatcctc ctcagtttct tggctctggt   1560
gctcatctca acacagcagg gtcttcctcc atcaggccaa ggtgggggta ggagaagaat   1620
tgggaacagg gactccccta ggttctcagg gtacagtcag tcaatctaag cctgtatcca   1680
acaaagacac tgacccctgg ggtacaagga agggctccag gcccaaaggc aggaggatta   1740
ggctttagct cttgctcaca gcctgctgag acctggggca agccctgtc cctctttggg    1800
ccctcaggtt tgcaatttgc agaatggagg aaatgggttc ctcaatctac aatcacctga   1860
ctataataat attttgcctt tatataccgc gtgggtaaat tcctgaaagt aaactaagct   1920
gttttcaccc ctggatctca tttgatcctc ccaacagcct gtttgcattt acaaatgaga   1980
aagctccagt tccctaaggg aacaaaatta cccaaagtca cacagcaagc tggaagcaga   2040
gcctgggtgc agtccttgaa tcctga                                        2066
```

<210> 6441
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1156)...(0)
<223> similar to gi4007113 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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<400> 6441
tttttttttt ttttactcat ttttagggct ttttatgtgg ccttcaaagc acgttgcaaa     60
caaatccctt tcactcctca gaggaggagc cattaggaag gtaggggcg acaggcacag     120
cctacagcct ctcctcagga ggacagaggg ggtcattgca tttgagcccc ctgccagtca    180
tcttcggggg ctcctgaggg tccaggtcca acatgtttcg agggtctgca gcacatccac    240
gggcgctgta ggacttccag gcctgcatgt tacagctctt caggatggct cccaagctgc    300
ctgccaaggg cctacttcga aagtttgggg gaaccccctt gccttttttt cctttcgtat    360
atggcatgca tcgtcttgct cccactttca cttggggaga ccaagctgct gggccaagca    420
actttgttgg atgttgcccg ggaatgcctg taatctaatg cgcgtgggac gttgggagta    480
gacagaaacc agaggcttct taatgtcgac tgcctttaaa gcttcgtca ggggctccac     540
ggctggctcc atgaggcggg tgtggaatgc gccactaacc ggcaacatcc tggtgcgtct    600
gaaatgaaac ttagaggaat tcttctggag aaaccgtaga gccttcagca aattccatgg    660
ctccggcaaa cactagggct gcaaactctc ccacactgaa tccagcagca gcaacacagt    720
tctcaatcac cgagggctgc aggtgatgta gtttctcgac agcggccagc gatgccacga    780
agatcgcggg ctgacagtgc acggtgcggt ccaggtctc ctgcggcccg tgcaggctca     840
gttccagcag gtcgtagccc agcacgcggc gggcggcggc gtagagttcg cggacgcgcg    900
```

```
ggtagttgag cagaccgcgg cccatgccca ccacctggct gccctggccc gggaagagca    960
gcacggagca ctggcccggc attcgccgct ccgtcgccgc ccagggcgcc tcctcctccg   1020
cccggtcgc atctcgcagc agctccgcta caccctgggc gcccggcgga ggcaccggga   1080
agctcgaggc gccgcggcgg tagctggcgc ccaagcccct gacccacgct acccgtgcga   1140
cccggacgct catggtcgga cacctgccc                                     1169
```

<210> 6442
<211> 3753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3673)...(1304)
<223> similar to gi1177440 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6442
```
tttttttttt ttctgagagg atttctttat ttcgcgttca gacccaacac actcggacac     60
cttggggccc tgtgagggct aagcagggtg gtggcgtcag ctcccgggga ggccccactc    120
cctggggagg aaatacacgg caggggggccg cacccagccc cccacggagg gacccgtgtt   180
gctctaacag ggacactgaa gttgcctctg ccgccccgtg aggggcctgt ggcggcccca   240
gacccagccc agccaggcca gaggagcctc ccaggggccc tcaggtggtg aggtggggggc   300
ttcccggccc cggtgcccac cggcccttct agctgcctgt gctgggccag gtgtcctctg   360
aggccggcag gagtctggcc cccgctgcac ctgcgcttgg tggctggcag gggcaaggta   420
gggaggtcac cctcgaggcc ggggtcccca tgtgctaggg gaagacctgc cttcccagcc   480
agtgtccaca gggcagcaat tccacgctct gaggctcagg gaccaaggca gggctgggtg   540
tggggcccag actccaagct ctggggattg ggggaccaag gcagggctgg gcatggggct   600
cagggccttg gaggttttc tcagctctca acatcacagc acagggcccg tgagtcaccc   660
cagtcctctg ggcctgtgta cccaagccgg atgcaggccg gggagtgcac gtggggctcc   720
tctgtggcgc cagtgtgaag ctgctctccg gggcggtcgc agcctccaaa ccctggtgct   780
acgagtccgt gcctcaggcc cagggaccac aggccgtctg ctcatggctg aaaatgaggc   840
caagcagctc ccaagtctcg aagactccac tggtgtggag gcagagggggc ccttccaggg   900
cagggcagcc ctcggggcag cagcaggggc aagggctctg tctcacgcac acgggcacag   960
gcacgcaggt gccggcccctg ccgctggctc ccaagaggcc gatagcccgg tagggaggtc   1020
acacacacac agctgatccc tggaggtaaa gaaacctaga cgaggagagt ggaggctggg   1080
cctgcgcaag gaggcgccaa gggggggagac cactgcccac aacagggtca gtcccgcgag   1140
agggtcagtt ccgcgcctgc cgcctgcccg cccagctgca gggtgctcgc cattgccact   1200
gctggggagc atggtttggg ccgagaaacc agtgactccg ggaggaaatg cagaagggcc   1260
ggggtgccag cgccagtgcc cattatgggc agggctgggc ctcacgtctg ggccagcgag   1320
agctcctcca agcctctctt tcccaggcgg tacctggcga ggtccttcct ggtcaccaac   1380
ccgacaacct gattgcggtt gtccaccacc accaggtgcc gcaggcccag ggcccggaac   1440
agcttgaaca cccgtgggag cgacgcctcc tggggcaccg tgtaggggga ggggttcatg   1500
aactcggaga ggtccatggt gcactcccgc tcgtcctggg acacgtggat ggactggatg   1560
ggtgggaagc gcgggtaggc gtctcggaag tccttcagcc tcaggcgccg ctgtaccagg   1620
cccaggttgg accgctccac aaacaccttg tgctttagga gaacgatgag ctgggagcgc   1680
aggatcaggc cctggagccg ggcaggctgg gtgtcatcgg catgctccac cacggggaag   1740
ccgttgtgat tggacgccgt gtcgctcagc acgtccacaa tgacgccgac cttctcacgc   1800
cgcctcaggc aggtcactgg tgtgctcatc acctccctgg cagtgagtga gtgtgaggtg   1860
accggggcct cccagtgcag gaagggcaca ctctgcagct gaatgtgcat gtcgtacagg   1920
```

```
ccctcaatga agacgtcgcc cacgatcttg gcggtcatga gcaccagcat gatggggaag   1980
ccgtaggtca cgttgctggt ggcctccatc atgatgacgg tcaggctcag tgtcatccgc   2040
acaatcccgc ccagctgggc agcagctccc atcagggcgt atttgccggg gtccgccag    2100
atcgccgccc ccgtgaggta ggacagggag atcccaaaga gccggcccca ggcagccccg   2160
atgagcaggg acgggatgaa gaccccggca gacaccgtga gcccgtaggt ccagcaggcc   2220
aggaagaagt agaccagcgt gaacaggccg agggtcaggg ggttgtagga gcctggcggg   2280
tcgtggaaga ggctcaccac gctcttctcc ggggtgttga agaaggccgc agccatggag   2340
ttgtactcgc catctgcaca aaagagctgc agcgggtagg acatggagcc ccctgcagg    2400
ggctggcaat cccgcgacga gtagatcagc acgaaggcaa ctgtggccgt gacggcggcc   2460
accagcacgg cctcaatcac ctgcaggcag ggccggtgga tgtacctgat tcgaaacatg   2520
gtcagccagt agttcaaggc attgaacacg gctccaagca caccgcccac cacgcccatg   2580
gcgatgaaga ccgggatctc gtggatcgtg taggccattt tctccgagtc aaaccttccg   2640
aagttgatga ggcctgggct ggacaggtcc cacatgttcc cgtggtaaat gctcagaaca   2700
aaattcaggg tgaacgtgga gatcatggaa gcaaagaaga tcctccaggt caggaactgg   2760
ttccagaagg acgcaccctc ctccaagctg aacaggaccc cacccacggg ggctccaaac   2820
gccgctgaca ctccggccgc agccctgcg gagacgaagt cccgcttctc tgtgtctctg    2880
cggaggtact cgaagatctt gaaatctcgt ttcagtgacg ttgaccttcc ctgagagatc   2940
ccggcggcaa tcactgaacc tgagtggatc atcggccctt cctttcccac ggccaggccc   3000
ccgaccacgg acaggatcac accggacact ttgatcacca acgtcttgag ccgcaccacg   3060
tgggggatct tcaccccgtt gaggaagcac ttgatctggg ggattccgct gccagcagcc   3120
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gcccacagca acagggagaa ggacagtccg cccttctctg tgaacttgtc gatattgccc   3240
ttgatgaccc tgtacttgag gccagccagg ttttccacca cgatgtcaat gaagcaggcc   3300
acgaggcccg tgaggatccc aatgagggcg cagatgaccc agcgcttgat ctccaccgtc   3360
cggaaggccg tgtgattgat ccgccgctcc tcctccagga acagctggtt ctcactgttg   3420
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gggaagggat gtggagggtc catattccgg ttccaaaagt tcatcatcca gcttcacgct   3540
gctcatatgt ccgactcgga aaagcgcaga acgtggtgac tggcgcgcag ccccaggccc   3600
agccccgttc agcagcggcg tccccccgcc gggccgcgcc gtcctccgca gcagcggcgc   3660
cgcctcctcg tcgtcccggt cccggccgga ccaggacacc ttcttagaga cgttggccat   3720
ggcccgccgc ggagcgacac cggccgggaa gcg                                3753
```

<210> 6443
<211> 2881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (536)...(1996)
<223> similar to gi349096 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6443
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tcatgtgaaa acgcacatgc tctgtcatcc acaccgcctt tctttctttt ctttctgttt    120
ccttttttcc cccttgttcc ttctccctct tctttgtaac taacaaaacc accaccaact    180
cctcctcctg ctgctgccct tccttcctcc tcctcagtcc aagtgatcac aaaagaaatc    240
ttctgagccg gaggcggtgg cattttttaa aaagcaagca cattggagag aaagaaaaag    300
aaaaacaaaa ccaaaacaaa acccaggcac cagacagcca gaacattttt ttttcaccct    360
```
```

```
tcctgaaaac aaacaaacaa acaaacaatc atcaaaacag tcaccaccaa catcaaaact      420
gttaacatag cggcggcggc ggcaaacgtc accctgcagc cacggcgtcc gcctaaaggg      480
atggttttct cggcagagca gctcttcgcc gaccaccttc ttcactcgtg ctgagcggga      540
tttttgggct ctccggggtt cgggctggga gcagcttcat gactacccgg agcgggagag      600
cggccacacc atgcgagcac aaattgaagt gataccatgc aaaatttgtg gcgataagtc      660
ctctgggatc cactacggag tcatcacatg tgaaggctgc aagggattct ttaggaggag      720
ccagcagaac aatgcttctt attcctgccc aaggcagaga aactgtttaa ttgacagaac      780
gaacagaaac cgttgccaac actgccgact gcagaagtgt cttgccctag gaatgtcaag      840
agatgctgtg aagtttggga ggatgtccaa gaagcaaagg gacagcctgt atgctgaggt      900
gcagaagcac cagcagcggc tgcaggaaca gcggcagcag cagagtgggg aggcagaagc      960
ccttgccagg gtgtacagca gcagcattag caacggcctg agcaacctga acaacgagac     1020
cagcggcact tatgccaacg gcagcgtcat tgacctgccc aagtctgagg gttattacaa     1080
cgtcgtttcc ggtcagccgt cccctgatca gtcaggactt gacatgacct ggaatcaaac     1140
agataaagca agaacctatc tatgacctca catccgtacc caacttgttt acctataggc     1200
tctttcaaca attgggcagt tagcaccagg gataaccat gactgaaatc gaccgaattg      1260
cacagaacat cattaagtcc catttggaga catgtcaata caccatggaa gagctgcacc     1320
agctggcgtg gcagacccac acctatgaag aaattaaagc atatcaaagc aagtccaggg     1380
aagcactgtg gcaacaatgt gccatccaga tcactcacgc catccaatac gtggtggagt     1440
ttgcaaagcg gataacaggc ttcatggagc tctgtcaaaa tgatcaaatt ctacttctga     1500
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acactgttct gtttgaagga aaatatggag gaatgcaaat gttcaaagcc ttaggttctg     1620
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aggaggagat cgctttgttc tcatctgctg ttctgatatc tccagaccga gcctggctta     1740
tagaaccaag gaaagtccag aagcttcagg aaaaaattta ttttgcactt caacatgtga     1800
ttcagaagaa tcacctggat gatgagacct tggcaaagtt aatagccaag ataccaacca     1860
tcacggcagt ttgcaacttg cacggggaga agctgcaggt atttaagcaa tctcatccag     1920
agatagtgaa tacactgttt cctccgttat acaaggagct ctttaatcct gactgtgcca     1980
ccgcgtgcaa atgaaggga caagagaact gtctcatagt catggaatgc atcaccatta     2040
agacaaaagc aatgtgttca tgaagactta agaaaaatgt cactactgca acattaggaa     2100
tgtcctgcac ttaatagaat tattttcac cgctacagtt tgaagaatgt aaatatgcac     2160
ctgagtgggg ctcttttatt tgtttgtttg tttttgaaat gaccataaat atacaaatat     2220
aggacactgg gtgttatcct ttttttaatt ttattcgggt atgttttggg agacaactgt     2280
ttatagaatt ttattgtaga tatatacaag aaaagagcgg tactttacat gattactttt     2340
cctgttgatt gttcaaatat aatttaagaa aattccactt aataggctta cctatttcta     2400
tgtttttagg tagttgatgc atgtgtaaat ttgtagctgt cttggaaagt actgtgcatg     2460
tatgtaataa gtatataata tgtgagaata ttatatatga ctattactta tacatgcaca     2520
tgcactgtgg cttaaatacc atacctacta gcaatggagg ttcagtcagg ctctcttcta     2580
tgatttacct tctgtgttat atgttacctt tatgttagac aatcaggatt ttgtttttccc     2640
agccagagtt ttcatctata gtcaatggca ggacggtacc aactcagagt taagtctaca     2700
aaggaataaa cataatgtgt ggcctctata tacaaactct atttctgtca atgacatcaa     2760
agccttgtca agatggttca tattgggaag gagacagtat tttaagccat tttcctgttt     2820
caagaattag gccacagata acattgcaag gtccaagact tttttgacca aacagtagat     2880
a                                                                     2881
```

Run with FASTXY 3.3t00, default parameters


```
        <400> 6444
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caagaaggct ggaaatgcac attcagaaat gaggtaagca ggacccagtg aggcacgacg   120
tggtttacta gaagtggccg gtttcctggc agctttgtaa atggactcta acctcagtgg   180
aatctgggcc cccggctggg atcaggaggc gaccatatgg gcttttcttg tttcacggtg   240
aagaatctgt tgcgctgaga gcaccaggga gcaggtagaa gacccgggca gccatcctgc   300
gggggctgag aaggtgacac cagggctgct gaagtcgggc tccctgttag cctgcagctc   360
cagtgccact tgccctgtgc actgtttttcc agttgaggag cagctcgagc tctggggggg   420
cagcaccaaa ggcatctcca tggggcacct cagggatttt caggcaccac gggcaatgca   480
ggagcttctg gcgcctccac ctcaggccag gcccaccgtt cttctggtgg gatgaggctg   540
atgcgggact tctcctcttc agctgcctct agggagatct ctaaagacac cataagggga   600
acactgggct ccagggcctc cctcgggacc tcaatctcac ttggaacttc aatctttctc   660
ctttcctcct cagcggctgc ctcctcaggc agctctcgcc tgagggcttt tgggggtggc   720
tgggcacaag tgggtccaga gacccagtag ttcagggggt agccagccag agagagttgg   780
ggttctgaaa caactccgca aggcctctga tggtcctctc gggcggctgc aaccatagga   840
cattcccagc agtgggctct ggtttgcagt tgttcctgga atttctccgg ggagatctga   900
gtctccttgt cccagaacag taaccggcga cgacggcggc ggcgaggagg tgggggggact   960
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tccatgagta gggccccagg ttcccagcct gtcagcctca gctcctcagg acccagtgcc  1080
tctcctattc cttccacctc tgcaggagct ggaggtggga gccgcgggat ttctaacaag  1140
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tcccgttcac cctcaatctc cagcatccgt atgggctctg cctcccagga tcgtgatggc  1260
ctcaggtggc agcacagtga ccggaatcct ctctggctcc ctgggctctg taggaacttc  1320
aggagggatc tcttcaactc tctctgggat tgcagcctct aagaggtgtc gaatctgagg  1380
gatatcgaaa ggactaggaa gtctgggatc cacagacatc atcccaaaaa agggatctgg  1440
agcatcttct agggtctcca tcatggccca ggtggttagg aagcagcagg ctgggtagct  1500
cagtctccat atctattcgg atctgcagct gggcacggtg gaggcgctcc aagatgtgct  1560
ggatgtcctc cacgaggtac tggcattgtt gagaatagac gcggatcaca ccgatctgaa  1620
gttgggctga gagatagagg gagaagcggg gccgcggcag gccgggctgc ggggggttgca  1680
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cggtgtggcg ctgaagcacg ttgggatagt agaacattgt ccctctggtc tttcaccctc  1860
gattccacca gatccccgtt cggatctgag tcggaatttc tttagggcac agaattccca  1920
acaccttgga gagaagtcag gatttggtct tctctggtgg caaggtgggt gcacctagaa  1980
agccaagtta atgaggcaac gaacaatggg cagatacaca attacccagg ataactgaga  2040
cgcaggagat gggcgcccct ctctgtggac cctcggtgga tccgcacgcc acgtgatgcg  2100
tcaaacttga gacttctggg ttgggttcca ggttggagat gcagagctcc aaggggacgt  2160
ccgggccgga atccagagca ggtcccgagg gagcacggtg tcctccacag caggcctcgg  2220
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gtgtggcccc gggccgccta ctgcaggact agatcgcacc gcgggaagcg agcgcttcgg  2340
ggcaccgcac ctcgctcctc attagatggc ggcttttgcc ctgacagcca atggggaacg  2400
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```


```
        <210> 6445
        <211> 2205
        <212> DNA
      . <213> Homo sapiens
```


5072

<220>
<221> misc_feature
<222> (1756)...(426)
<223> similar to gi3874275 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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tagtgtctgg gagctggcac acggcccagg gtccctctgg aagctgggcc aggccaaggg   180
gttaggccca ggcccttcgt ggggtgggcc cagggccagc tgtggcagat gtgcaggtag   240
gtgagcggca gcctctcaga tgagcacact ggccacgggc acgcgggtgg agcggccccg   300
ctggggcacc acaatccggt cgtctgtgga ccctgcttcg tgcagcaggc cctgcacgtg   360
cagctgtgcc cgccggcggt cggcctcaat gaagatgggc ggtgcccagg aaggctgcgc   420
cgcccagtgc cccaacaaac gcgcagagca tgagcgagaa ctgcagagcc cggaactcgg   480
acaagaagga gggggggccag ttccggcgca ggcggtcaga gatcaggcca atgaggtagg   540
ggctcccagc atcacccagc aggtgggaca gcacgatctg gaaggcctcg gcggtggagc   600
gtcgggtagg gatcaccacg tacagcagaa tgtcggccac gatggcccag ttcatggaca   660
ggagggtctc tccaatgaag atgaaaatat aagtggccac gatgctacca cgggcgcagg   720
caagggacag gaagaggaag ggtgcagagc ccaggaggcc agtggcacag accaggggat   780
cagcccgggg gttggagtgg cggagccggc ggctgatctc cacacccagg cccacaccca   840
ggactccggt caggcaggtg atgagtccaa agatgagact gtcagaggaa gagcaggagt   900
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gagcccacag agccagggag cccgtgacaa aggccacagc agtgaagccc agggaagaca   1020
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ggggtggcaa atctgagtgg cgctccacgg ctccccttgg cggctcccgc actaccagga   1140
acagcagcag aacggccacc actcctagac ccggtgtcac cctcagagcc cagtgccagt   1200
ctccagccat atccttcact ttggagcctg caatgtagcc cagaccactg cccaccggaa   1260
tggcaaagta gaagatgctg agcatccggc tccgctggtc ggccacaaag aggtcggcaa   1320
tgagagtggg cgcgatggtg gaataactgg cctccccgac ccccaccagg ccccgggtca   1380
ggaggagcag ccagaaatgc tctccgggga tgaaggatga ccccagtgtc accagggacc   1440
agaaggcaat gcccccgcac atgagatact tccgattgta cctgtcaccc aggtagccaa   1500
acacaggtgc caacaccatg taactggaga tgaacacggt ctggatgagc ccagagctac   1560
tgtccccgat gttgaagaac tgctcgatgt cgggaaggac gccagccacg gtgaagcggt   1620
ccatgtagtt caggagattg atgtagcaca gcaccgccac tatgagagcc gaacggccgg   1680
gagacaggcc ggtgatgcgc tgcagcccct cctggtccgg gacctcgggc tcctcggact   1740
tcgggttccc cgtggaccct ggcaaccccg gggtgccagg cactggcccg tcgtccgggt   1800
catccgcctg gctgaggaag ggcgccggtg tcggacccgg ccatggtccc gggggggccgc   1860
gcccgcccgc gctccggtcc caccgacgat tcccaccttg cgaggggagg aggctggaga   1920
aaggaggatg gaccgaacac aggcgaggga agtgcgcccg gagacgggga gcttgccctg   1980
aagcacagag caccactgag aagggacccg ggccctgtca cgcctcccg tctcagtaga   2040
cacacagcgc ggaggggacg tgcggaatac acgtgatgtc ggggacagga gcgggctgaa   2100
gagggcacga tcccacgcgg aggccacccc tcacccgggg taggagcccg ctgcacttgc   2160
tgtcgctcag cccgggcgtg caccgcggca gccgccatgt tgctt   2205

      <210> 6446
      <211> 4068
      <212> DNA
      <213> Homo sapiens

5073

<220>
<221> misc_feature
<222> (80)...(3471)
<223> similar to gi3287173 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6446
```
tttcgtccga agcgcgggaa gcagctcttg tggatcctca gtggcggtgg ctcggtcacc    60
cggataggta aaggaaaaca tgcctgccac acggaagcca atgagatatg ggcatacaga   120
gggacacacg gaggtctgtt ttgatgattc tgggagtttt attgtgactt gtggaagtga   180
tggtgatgtg aggatttggg aagacttgga tgatgatgat cctaagttca ttaatgttgg   240
agaaaaggca tattcatgtg ctttgaagag tggaaaactg gtcactgcag tttctaataa   300
tactattcaa gtccacacat ttcctgaagg agttccagat ggtatattga ctcgcttcac   360
tacaaatgca aaccatgtgg tctttaatgg ggatggtact aaaattgctg ctggatctag   420
tgatgtttct agtcaaaatt gtggatgtga tggatagcag ccaacagaaa acatttcgag   480
gacatgatgc ccctgtttta agtctttcct ttgatcctaa ggacatcttt ctggcatcag   540
ctagttgtga tggatctgtc agagtgtggc aaatttcaga tcagacatgt gctattagtt   600
ggccactgct acaaaaatgc aacgatgtga taaatgcaaa atcaatctgc agacttgctt   660
ggcagccaaa aagtgggaag ttactggcaa ttcctgtgga aaaatctgtt aagctatata   720
gaagagaatc ttggagtcat caatttgatc tttcagataa tttcatctct cagaccctca   780
atatagtaac ctggtctccc tgtgggcaat atttagctgc aggtagtatt aatggtctaa   840
tcatagtttg gaatgtggaa accaaagact gcatggaaag ggtgaaacat gagaaaggtt   900
atgcaatttg tggtctggca tggcatccta cttgtggtcg aatatcgtat actgatgcgg   960
aaggaaatct agggcttcta gagaatgttt gtgaccccag tggaaagaca tcaagcagta  1020
aggtatctag cagagtggaa aaggattata atgatctttt tgatggagat gatatgagta  1080
atgctggtga ttttctaaat gacaatgcag ttgagatccc ttcttttttca aaagggatta  1140
taaatgatga tgaggatgat gaagacctca tgatggcttc aggtcgtcct agacagcgaa  1200
gtcacatcct agaagatgat gaaaactcag ttgatatttc aatgctaaaa actggttcta  1260
gtcttctcaa agaggaggag gaagatggtc aagaaggcag cattcacaat ctaccacttg  1320
taacatccca aaggccattt tatgatggac ccatgccaac tccccggcaa aagccatttc  1380
agtcaggttc tacaccgttg catctcactc acagattcat ggtgtggaac tctattggaa  1440
ttattcgctg ctataatgat gagcaagaca atgccataga tgtggagttc catgatacct  1500
ccatacacca tgcaacacac ttatcaaaca ctttgaatta tacaatagca gatctttccc  1560
acgaagctat tttgttggca tgtgaaagca ctgatgaact agcaagcaag cttcactgcc  1620
tgcactttag ttcttgggat tcaagcaaag agtggataat agacttgcct cagaatgagg  1680
atattgaagc catatgtctc ggtcaaggat gggctgctgc cgctactagt gccctgcttc  1740
ttcgattgtt tactattgga ggggttcaaa aagaggtatt cagccttgct ggacctgtgg  1800
tgtcaatggc aggacatgga gaacagcttt tcattgttta tcacagaggt acaggatttg  1860
atggggatca gtgccttgga gttcaactgc tagagctggg gaaaaagaaa aaacaaattt  1920
tgcatggtga ccctcttcct cttacaagga aatcctacct tgcatggatt gggttttcag  1980
ctgaaggtac cccttgttac gtggattcag aaggaattgt tcgaatgctt aacagaggac  2040
ttggtaatac gtggactcct atatgtaata caagagagca ctgcaaagga aaatctgatc  2100
actactgggt ggttggtatc catgaaaatc cccagcaact aaggtgcatt ccttgtaaag  2160
gttctcggtt tcccccaacc cttccacgcc ctgctgttgc tatattatcc tttaagcttc  2220
cttactgtca gattgcaaca gagaaaggac aaatggagga gcaattttgg cgttcagtta  2280
tatttcacaa ccaccttgat tatttagcta aaaatggtta tgaatatgaa gagagcacta  2340
aaaatcaagc aacaaaagag caacaggaac ttttaatgaa aatgcttgcg ctttcttgta  2400
aactggagcg agaattccgt tgtgtggaac ttgctgatct aatgactcaa aatgctgtga  2460
atttagccat taaatatgct tctcgctctc ggaaattaat actggctcaa aaactaagtg  2520
aactggctgt agagaaggca gccgaattga cagcaaccca ggtggaagag gaagaagaag  2580
aagaagattt cagaaaaaag ctgaatgctg gttacagcaa tactgctaca gagtggagcc  2640
aaccaaggtt cagaaatcaa gttgaagaag atgctgagga cagtggagaa gctgatgatg  2700
aagaaaaacc agaaatacat aagcctggac agaactcgtt ttccaaaagt acaaattcct  2760
ctgatgtttc agctaagtca ggtgcagtta cctttagcag ccaaggacga gtaaatccct  2820
```

```
ttaaggtatc agccagttcc aaagaaccag ccatgtcaat gaattcagca cgttcaacta    2880
atattttaga caatatgggc aaatcatcca agaaatccac tgcacttagt cgaactacaa    2940
ataatgaaaa gtctcccatt ataaagcctc tgattccaaa gccgaagcct aagcaggcat    3000
ctgcagcatc ctatttccag aaaagaaatt ctcaaactaa taaaactgag gaagtgaaag    3060
aagaaaatct taaaaatgta ttatctgaaa ccccagctat atgtcctcct caaaacactg    3120
aaaaccaaag gccaaagacc gggttccaga tgtggttaga agaaaataga agtaatattt    3180
tgtctgacaa tcctgacttt tcagatgaag cagacataat aaaagaagga atgattcgat    3240
ttagagtatt gtcaactgaa gaaagaaagg tgtgggctaa caaagccaaa ggagaaacgg    3300
caagtgaagg aactgaagca aagaagcgaa aacgtgtggt tgatgaaagt gatgaaacag    3360
aaaaccagga agaaaaagca aaagagaacc tgaatttgtc taaaaagcag aaacctttag    3420
attttctac aaatcagaaa ctatcagctt ttgcatttaa gcaggagtaa aggaagaaag    3480
tgaccctagg gaagtaatgg atttttttt actcatcttt gaatatagac tcgagtcttt    3540
gggaaactca ttatatatat attttttaaa gagtttgaag caactgtttg tctttataag    3600
ataatgtagt aattatattg gtgtaggtaa caggacatat gtaaaaacta tcatctttgc    3660
agattactct gcctccaaat gcagggcctt tcagagatgc attgtgattg taattactga    3720
gttgaagctc caaccaattt gaatttgttt cttaaccttg aaaaatcatt aaagccaagg    3780
tattaaaacc tttgtgcatt aataccttct aggggtttgg ttcatttggt ttttgtcatg    3840
tgcaaggaag gacaatagtc ctctttccaa gtgtgttagc atagacttct ctatatgttt    3900
ctactagacc taggggatga cgtcttttaa taatactggc cctaaacatg taaataatct    3960
tgtaggtgag actttttctt ttgtgtttcg gaaatttcct atgtggcttt cagttgtctg    4020
tttgtatagc ctggattttt ttgaggtaaa tgaaactttc tcatttgt               4068
```

<210> 6447
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2398)...(871)
<223> similar to gi4929769 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 6447
tttttcacag catgaattca gaagcttact ttcaaaaaaa atttattcaa tgaatacaca      60
atataattcc atttcgagtg attaaaacct atttgttgtt taaaaccaaa caaaactaca     120
agaaaacatt ttcaaaacct ttttttttcag gctgaagaaa tcgtttaatc cattttaaag    180
aaatctcaca tgatgttctg tcgggattaa aaatatacac ggaaaaaaat aaaacaaat     240
atatacacag aaagaagctc gcacagagtc aggcgtgcag caacgtcaca cactcattcc    300
tttctgtttc ctctggacac tcaaaatgtg aaagcaagta agagggggt ggttaaccaa      360
acctttggt ccaaggaata aaatttcttt aaaaaattta aaacgtcaaa acctgccaga     420
ataagacaat agaagagcgt atcgtcaggc gctgggaatg gcaccacgac aaggcattaa     480
tgtggattca cttgcacagc tgctctcata aaagctacac gattcagagg taaccctaac    540
tatccgcaat cccaaccaaa gtcatgttca tgccgctgtc ctagtctgga caatcatctg    600
tcactcatcc aacacagtta tatacagaat gcgcagtccc agcaacagtg tagattacag    660
caggcgttct ctacctggac tcatgattgg atttcatttc taaattacat cagagctttc    720
aaagattgaa atacacaaat ctgcactacc caagcctcct tgcctgtacg ggaaacaaat    780
cagaagagca tttattggga actgacacgt caggcctcac aggtgctggg caggaatcac    840
agaggcttgc tctgcatcat gtcttccgtt aacctgaagc tttgggttta ttgtgtttgg    900
caaaccactc gtcacttta tctgctgcca ttgcatcatc caacaatttg cttccctctg     960
```

5075

```
gatccatctt agaagagttc tcgaaatgct tcatccccga caaagcaaat ttcatgtccg    1020
tcagggtcgg ccagaatgac cacctgtact gttgctttcc ctggggtgtc caggctcacc    1080
aggggagtca gaatcttctg gttctccctt ttcatcaagt cttcctaagt ctggcaaact    1140
ctttctgggg gcaagagaag gcaaattctt ccaaaaagct gctgcatggt tccaccccac    1200
ccttgacgcc cctgtagctc caagcttaca ctggttatca gcatagccca gcaaagccct    1260
ttgcttttct tcatcttttt cataaatttt cattcccagt agattacacc agtagttcaa    1320
ggactttga agatcagaca ctgctagagt tacttttaat acaggatctg actgaggcag     1380
actgcgattc tgcaaataga acttatatcc tcccgggggcc tcggtttcaa aaacaccttc    1440
tgcaacttcc gtcagtggcc actccagctt cctggcgttg ctgacagcct ggctagaagc    1500
gagcgtgatt cccataaagt cattgccaag cttgtagtct ccgacgccat aattgtaagt    1560
cagttctgcg acaaaatgat catcctcagg cccaaatccc accattgttt tactccattt    1620
cccatcataa ggcccattac aggcagcttt gcagccttct tcaaattcct catgccgcag    1680
aaccttcatc cccaggacgt cccgatagaa acgcgccgtc tggaagcggt ttcccacttt    1740
gaatacgaag tgcagagctc tgcgagcagc catgattccc gccgcacgca gccgtcacgc    1800
gcaccgtaca gcccagtcca cgaagggcgc cacgggccgt gacgtcacct atgcccgacg    1860
gcgcgctttc gtgacgcagc ccgggtctca gggaacatgg cggcgctggt gagacccgcg    1920
aggtttgtcg tgcgaccgtt gctgcaggtg gtccaggctt gggaccttga cgcgaggcgc    1980
tgggtccggg cgctgcggcg gagcccagtg aaagtggtgt ttccttccgg agaggtggtg    2040
gaacagaagc gcgctcctgg gaagcagccc cgcaaggcac catctgaggc cagtgcccag    2100
gagcaacgag agaaacaacc gctcgaggag tccgcatccc gcgctcccag cacctgggaa    2160
gagtctgggc ttcgctacga taaagcttat cccgggggaca ggaggctgag cagtgtaatg    2220
acaatagtaa agtccaggcc atttcgggaa aaacaaggga agatcctgct ggaaggtcgc    2280
aggctcattt cagacgctct caaggctgga gctgtgccaa aaatgttctt ctttagccgt    2340
ctagaatacc taaaggagtt gccagtcgat aagctgaaag gtgtcagcct cattaaggtg    2400
aaatttgagg atatcaagga ttggtccgac ctcgtaacgc cacaaggaat aatgggggatt    2460
tttgccaagc ctgaccatgt taagatgaca tatccaaaga ctcagcttca gcattcactg    2520
cctttattat tgatttgtga caatctccgt gaccctggga acctggggac aattctgaga    2580
tctgcagctg ggg                                                       2593
```

```
        <400> 6448
agcggccgcc ctttttttt ttttttcagt aatacagatg tctattttat taaaaaagtt     60
acaaacaggt ggactgcagg gtcgtcttac aaaatgacaa gaatgaaatc tattggaaaa    120
attttacttt tacaaatctt tataggtaaa ttgttcaatg tttgtacttg ttatttgaga    180
ttttaccttt cactgataaa gttacagtac attagatcca tgataatagg ttacattatt    240
ttatttgcag agccctactg cagtgatttg aacaactcct aaatagatgc cataataaag    300
acaagacata tattgcattt aatattaatt tattatccta ataagcaaca tgcaatctat    360
tgaggaagct aaaataactt ttggtccctt ttcttaaaat gtgctggaga aaccacctt     420
aaaatcactt tcccctgatt cctgcgatcc taagtgaatt caagtcaaat ttgctgctga    480
ggtcaatgac aatgaacact gtaattttga gagagagaga gagagagaga gagagagaga    540
```

```
gagagagaga gagagagaaa caagaacaca atctacagga aagaaacatt ataaaaaaat    600
caaaatctct agaaaattta aatcatgatg aattatttga ttcctttaga atttcacaaa    660
gccacaaagc taataacaat gatccatgat cacttaacct acttttaaat gagtgtttgg    720
ttttaagttt ggtattaaag tgcaaactta aattaagtat tcacttcaag cagttcataa    780
ataaggaaca atgtttcaat tgcctctatc tttacaatct caccataaaa ttcaaaattt    840
aagaacaaga gttcactttg agggaatttg ctcaggaatc aaatgcaaca cgatttaaaa    900
aaaggaaatc aaagtttagt caatttctac tcagtaatta atggtcatgc tgacccataa    960
atcacatgaa tgtagatacc actttatttg aacatcacac acaatataaa tttaaaattg   1020
ccacaccctt tcataaacca tcactgcata tattagagct ttccttgaca aagttattga   1080
gctcttatta tagatcaaaa gtatagtttt ggttttgttt tattttattt agaagcatgt   1140
tcaaatgact aaagctgggc tcctaaaatc gagaactttg gtgcagtagg tgagctgcag   1200
ttactaactt ctgcaaatga aaagcacaca actaaaatca aataaaaacc caacaataaa   1260
atactgtcaa acttacacaa tttaaaaatc attgctagaa aaagccctca ttgtcacgat   1320
gttaaaactg aaccaaaata ttactctgca taagtttcct ttctgattct acacctgcgt   1380
tactgttaaa atgttcaagt attcagacaa aaatatgctg attaggtaaa caacatggaa   1440
ggcaatggct attagaaagc acatttgcaa aaataaaaaa tagcccagag acttggcgct   1500
attctccctc ctgttacaca gattttgtct ctaatacgaa catgcttctt gagaaataac   1560
taaaaagcaa ttgtgatagt gcaagaaaac tttaacaaat attgctttaa actattattc   1620
agaaagacaa atattaagaa ctagaaagtg tgtatgattt tatttgaatt caattttaca   1680
tgtgcagaag tctactagat gtcaattaca agcctgatag gcaaagatga gctatctctg   1740
tttaggtata caattaattt accatggata caatatccct tttcaaaggc attgctaaat   1800
aggtcataac taaatttaga acttcacaga aaggaaaatg ttactgccgc aattcaatgc   1860
tgtaaatgag attaacacat gtgaaaacct aatggaactg aatgcttaac tcttcaacta   1920
aatgctctac agtcaatttc aaatatcaat tgtaaccttc agaacatgtt aattacaaaa   1980
aaaaaa                                                             1986
```


<210> 6449
<211> 2287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (112)...(1745)
<223> similar to gi6019470 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6449
```
caggcggtgg ctatacttat taaagttggc gggagctgag cgatcagtcg gtcctgggct     60
ggctgtggtg tagggcgttg caggcagcgc tcacctcctc aggccggcag aatgcgggtg    120
gctgtggctg gctgctgcca cggcgagctg gataagatct atgagacgct ggcgctggca    180
gagcggcgcg gcccgggggcc tgtcgacctc ttgctgtgct gcggcgactt ccaggcggtg    240
cgcaacgagg cggatctacg ctgcatggcc gtgccgccca agtatcgtca catgcaaacc    300
ttctacaggt attactctgg agagaaaaag gctccagttc tcacgctctt cattggggga    360
aaccatgaag cctcaaatca tttgcaagag ttaccctatg gtggctgggt ggcaccaaac    420
atttattatt taggtttggc tggtgtggta aaataccgag gtgtaaggat cggtggaatc    480
tctggtatct ttaaatctca tgactatcga aaaggtcatt ttgagtgccc cccttataat    540
tcatctacaa tcaggagtat atatcatgtg agaaatattg aagtctataa attaaaacag    600
ctgaagcagc ctatagatat attcttgtct catgattggc caagaagtat atatcattat    660
ggaaataaga agcaacttct taagactaaa tctttttttcc gacaagaagt ggaaaataac    720
```

5077
```

```
acattaggaa gtccagctgc ctcagagctt ttagagcatc tcaaacctac ttattggttt    780
tctgcccacc ttcatgtgaa gtttgccgcc ttgatgcagc atcaggcaaa ggataaagga    840
cagacagcca gagcaaccaa attttttagcc ttggacaaat gcttaccaca tagagatttt    900
cttcagatat tagagataga acatgacccc agtgctcctg attacttgga atatgatatt    960
gaatggctca ctattctcag ggctacggat gatcttatta atgtgactgg gcgcctgtgg   1020
aatatgccag aaaataatgg cctgcatgca aggtgggatt atagtgcaac agaagaaggt   1080
atgaaagaag tattggaaaa attgaatcat gatctcaagg ttccatgtaa ctttagtgta   1140
acagctgctt gttatgatcc tagcaagcca cagacacaaa tgcagctgat tcataggatc   1200
aatcctcaga caactgaatt ttgtgcccaa cttggcatca tagacatcaa tgttaggctt   1260
cagaagtcca aggaagaaca tcatgtgtgt ggtgaatatg aagaacagga tgatgtggag   1320
agtaatgact ctggagaaga ccagagtgaa tataatacag acacatctgc tctgtcttct   1380
attaatccag atgaaataat gttagatgaa gaagaagatg aagatagtat tgtaagtgca   1440
catagtggca tgaatacacc atcggtagaa ccttctgatc aagcttctga gttttctgca   1500
agtttctctg atgtcaggat cttgccaggc tctatgattg tatcttctga tgatacggtg   1560
gattccacaa ttgatagaga ggggaaacct ggtgggactg tggagtcagg gaatggagag   1620
gacttaacca aggtgccatt gaagaggctg agtgatgaac atgaacctga acaaagaaag   1680
aaaattaaga ggaggaatca agccatttac gctgcagtgg atgatgatga tgatgatgca   1740
gcttaagatg atttacttgt tttgtttttg tgtttgtttt gctttttga gatggagttt   1800
cactcttgtc acctagactg gagtgcaatg gcgtgatctc gggttcaccg gcaacctccg   1860
cctcccaggt tcaagcaatt ctcctgcctc agcctcccca agtaggtggg actacaggtg   1920
ccccgccacc acacccggct aattttttgca ttttttagtaa tgacaggggt ttcacccatg   1980
ttggccaggc tggtctccca actccctgac cctcaggcga tcccacctgt cttggccttc   2040
taaagtgcct gggattacag gcgtgagcca ctgtgccctg gccgacaatt tacttgtctt   2100
agtattatat gtagatatgt gatttttga gactgtattt ttagagctga atttttgact   2160
aaagacttaa actttgataa attatggaag atacattaga gaattttagt tagatattga   2220
ctttatcttt aggctgttgt atgtttcaga tgcaaacata ttcaagtttc atatatttaa   2280
aaaaaaa                                                             2287
```

<210> 6450
<211> 3275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3276)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (37)...(1506)
<223> similar to gi5410286 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6450
```
ggtgctggat ctttccactg tggtggaatt catgaaatgg aagaaaaga acaggagctc     60
caggcaaaaa tagaagcttt gcaagctgat aatgatttca ccaatgaaag gctaacagct    120
ttacaagtac ggttagaaca tcttcaggag aaaactctta agaatgcag cagcttggag    180
aagctgatcg tcgaagggca tctaaccaaa gcggtagaag aaacaaagct ttcaaaagaa    240
aatcagacaa gagcaaaaga atctgatttt tcagatactc tgagtccaag caaggaaaaa    300
```

5078

```
agcagtgacg acactacaga tgcccaaatg gatgagcaag acctaaatga gcctcttgcc    360
aaagtgtccc ttttaaaaga tgacttgcag ggtgcacagt cagaaattga ggcaaagcaa    420
gaaatacagc atcttcgaaa ggaattgatc gaagcccagg agctagctag aacaagtaaa    480
caaaaatgct ttgaacttca agctcttttg gaagaagaaa gaaaagccta tcgaaatcaa    540
gttgaggaat ccactaaaca aatacaggtt cttcaagccc aattgcagag gttacacatc    600
gatactgaga atctccggga ggagaaggac agtgaaatca caagtactag agatgaattg    660
cttagtgccc gagatgaaat tttgctcctt catcaagcag cagcaaaggt tgcctctgag    720
cgggacactg acattgcttc tttacaagaa gagcttaaga aggtgagagc tgagcttgag    780
cggtggcgga aagcagcgtc tgaatatgag aaagaaatca caagtctgca aaacagtttt    840
cagcttagat gtcaacagtg tgaggaccag cagagagaag aagcaacaag gttgcaaggt    900
gaactagaga agttgagaaa ggaatggaat gcattggaaa ccgaatgcca ttctctaaaa    960
agggaaaatg ttttgctatc atcagaactg caacggcaag aaaaagaatt gcacaattct   1020
cagaagcaga gtttagagct taccagtgat ctcagcatcc ttcaaatgtc taggaaagaa   1080
cttgagaatc aagtgggatc cttgaaagaa cagcatcttc gggattcagc tgatttaaaa   1140
actcttctca gtaaggcaga aaaccaagca aaggatgtgc agaaagagta tgaaaagaca   1200
cagactgtac tctcagaact gaagttgaag tttgaaatga ctgagcagga aaagcagtca   1260
atcacagatg agctcaaaca gtgtaaaaac aacctgaagc tgctccgaga gaaaggaaat   1320
aatccttcca tattacaacc cgtcccagcc gtattcatcg gcctattcct ggctttcctg   1380
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gctgccctgg ttgcagtaac agccatcgtg ctgtacgtgc caggtctggc cagagcttct   1500
ccatgagagc gttccttgag tccgtacacc gtcctccctc tagaagctgg catcacactc   1560
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agaatacagc tgtagggtca ttgctttaaa ttatataaaa tgtatctgcc tataaagaag   1680
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acaccagatt atttataaca ttaaatttat gagtatttta ctctgaattc tgatcaccag   1860
ataattcatt tttctgattt gataactacc caaaccaaac aaccaataca tacatgggaa   1920
gagaggccct gtgtgctcag tgcctatcag tttgaaatat atacacatat atatattttt   1980
tacatattta cgccattttt acttgttatg aaaccactga gctattggga acaagactta   2040
gagacaacta tttgcgtgga tttttttttt tttaaggaaa aatacgtttg gaaaataaac   2100
tgttatggtg ataatttggg gaatatgtgc acgcttgttc agccttaatg tgacttgaag   2160
atgtggagga catcaacttt gaaaaacttt ccatgagagt gtattttctt gatcaaactg   2220
aagtatttct gggagcaaaa acatagtaat tacacaattt cagtgcagtc aaccaaaatg   2280
ttgagtcaat tggaatgtaa tttattaaac catgtattta aagagatatt tttctttaaa   2340
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gttttgtgcg gcatcatagt tatgtcaata aagtttattt aggtcataga atatcctaaa   2760
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aatttgcctt gtgatgtttg gcagtcactg tttatacttt aaaggttata ttttaagcta   2940
tttgagattg cttttgggaa gatcactaga tttatggagg aattagtcac aaatgacttg   3000
tagaaaatac tgtcatatag ttcatttcat cattttctgt tgcaggaagc cactccacca   3060
cagaatgcta atatgccagt ggtacccagt acctcttgta tataggttat tgcaaatatt   3120
gttctgaaat gcttaacttc agaattacat tttttaaagt aaataattgt tttaaatcta   3180
ttttgtaaag atataaagta caatagaatt tctggagtac agattaaact atttgcacta   3240
acacacgtga cgtgcatgat ttaatacncn agccc                              3275
```

<210> 6451
<211> 1709

5079

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (59)...(882)
<223> similar to gi252483 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6451
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taggaagcgg gccgagcaca agacggagga cgggaagaag gagaaatatt tcctcttcta   180
cgacggggag acggtctccg ggaaggtgag ccttgccctc aagaacccca acaagcggct   240
ggagcaccag ggcatcaaga tcgagttcat cgggcagatc gctatttcct tcgtgctacc   300
atcagccgcc gcctcaatga tgttgtcaaa gagatggaca ttgtagttca cacactcagc   360
acatacccag agctgaactc ttccatcaag atggaggttg ggattgagga ctgtctgcac   420
attgaatttg agtacaataa atccaaatac cacttgaaag atgtcattgt agggaagata   480
tacttcctgc tggggagaat caaaatcaag cacatggaga tagacatcat caagcgagaa   540
acgacgggta caggccccaa cgtgtaccat gagaatgaca cgatagccaa gtacgagatc   600
atggacgggg caccagtgcg aggagagtcc atcccgatcc ggctcttcct ggccgggtat   660
gagctcacgc ccaccatgcg ggacatcaac aagaagttct ctgtgcgcta ttacctcaac   720
ctggtgctga tagacgagga ggagcggcgc tacttcaagc agcaggaagt ggtgttgtgg   780
cggaagggtg acatcgtacg gaagagcatg tcccaccagg cggccatcgc ctcacagcgc   840
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tgcaggcagt aggcccccag ggccgagaag atgctgggca cccacccagc accccatct   960
accaacacca gcggctgggg gcgggggcgg accttgtgag gctcagttga cccgttactt   1020
gcaacctgaa aacaaatcat gtttttgact taaattcttt tctctggaga acccaagggg   1080
cttggggtgg gaagcagtct ctccttggga ttctgcggcc gatgtgggat agaagaggta   1140
gcatcctgga agccagcctc tctggggaac atgagccccc ttcctcgggg ggctgccttg   1200
cgtcttagag gagggagagc agagagcacg catccttggc tcctggctct ctgagcttcc   1260
tgatacagga tctgagcatg tccctgggat tctgagctgc caacagggcc ctgggtagtc   1320
acatcttgta ctcccctttg ctgtcccgga ggtagtggca ggagttgggc cagcccccac   1380
taagtggcag gggaagactc acgattggga agctacctct ttgggaatct tggatgtggt   1440
gatctcaagt tcccacaggc cacctccttc tggccactca ctgctgggac ccaggcacct   1500
cccttctcca tcctctctgg attgtcagta atgtcctgga acagaagcct gtgggatggc   1560
cttgggcacg gagaagccct ggggtcagtg tcgtgcacgg atggcggcag tgttgaaccc   1620
aggaggctga acccggccca ccacggaaga tgagtgcatg gcaaccgcct gccttcacgt   1680
cgctccactt ggtaacccca aggtctggg   1709

<210> 6452
<211> 2134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (992)...(1772)
<223> similar to gi4835268 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5080

<400> 6452

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gaacttccgg gtcgacccac gcgtccgctt ggacgagcct ggagagcctc cctccccctc      60
gctcaccacc acctctactt cgcagtggaa gaaacattgg tttgtgctga cagattcaag     120
tctcaaatat tacagagact ccactgctga ggaggcagat gagctggatg gtgagatcga     180
cctgcgttcc tgcacggatg tcactgagta cgcggtgcag cgcaactatg gcttccagat     240
ccacaccaag gatgctgtct ataccttgtc ggccatgacc tcaggcatcc ggcggaactg     300
gatcgaggct ctgagaaaga ccgtacgtcc aacttcagcc ccagatgtca ccaagctctc     360
ggactctaac aaggagaacg cgctgcacag ctacagcacc cagaagggcc ccctgaaggc     420
aggggagcag cgggcgggct ctgaggtcat cagccggggt ggccctcgga aggcggacgg     480
gcagcgtcag gccttggact acgtggagct ctcgccgctg acccaggctt ccccgcagcg     540
ggcccgcacc ccagcccgca ctcctgaccg cctggccaag caggaggagc tggagcggga     600
cctggcccag cgctccgagg agcggcgcaa gtggtttgag gccacagaca gcaggacccc     660
agaggtgcct gctggtgagg ggccgcgccg gggcctgggt gcccccctga ctgaggacca     720
gcaaaaccgg cttagtgagg agatcgagaa gaagtggcag gagctggaga agctgccccт     780
gcgggagaat aagcgggtgc ccctcactgc cctgctcaac caaagccgcg gagagcgccg     840
agggccccca agtgacggcc acgaggcact ggagaaggag gttcaggctc ttcgggccca     900
gctggaggcg tggcgtctcc aaggggaggc tcctcagagt gcactgagat cccaggagga     960
tggccacatc cccccgggct acatctcaca ggaggcatgt gagcgcagcc tggcagagat    1020
ggagtcctcg caccagcagg tgatggagga gctgcagcgg caccacgagc gggagctgca    1080
gcgcctgcag caggagaagg agtggctcct ggctgaggag acggcagcca cggcctcagc    1140
cattgaagcc atgaagaagg cctaccagga agagctgagc cgagagctga gcaaaacacg    1200
gagtctccag cagggcccgg atggcctccg gaagcagcac cagtcagatg tggaggcact    1260
gaagcgagag ctgcaggtgc tatcggagca gtactcgcag aagtgcctgg agattggggc    1320
actcatgcgg caggctgagg agcgcgagca cacgctgcgc cgctgccagc aggagggcca    1380
ggagctgctg cgccacaacc aggagctgca tgggccgcct gtcagaggag atagaccagc    1440
tgcgcggctt cattgcctcg cagggcatgg gcaatggctg cgggcgcagc aacgagcgga    1500
gttcctgcga gctagaggtg ctgcttcgcg taaaagaaaa cgaactccag tacctaaaga    1560
aggaggtgca gtgcctccgg gacgagctcc agatgatgca gaaggacaag cgcttcacct    1620
cgggaaagta ccaggacgtt ctatgtggag ctgagccacc atcaagacca cggctctgag    1680
cgggagattc gagcagctga aggagcacct gcgtccttgc catggccggc cctccaggag    1740
aaggagtcga tgcgcaacag cctggctgag tagaggtccc gcccagctgc agaccctcca    1800
ggctggagga ccagccgccc tccttccctc ctggatggaa gtaaaaagcc aagctttctc    1860
cccaccctct gtgggccaca cgtgcacttg cacccaccac acacacacac acacacacac    1920
acacacacac agacacacag acacatacgc acacacgtgc acacatgtac acacggatac    1980
acacacacac acacacacac acacactgca tatctgagca cgcccctcgc actgggtctc    2040
accttgcacc ttcttcagga ttttatatgt gaagagattt ttatatagat ttttttcctt    2100
ttttttccaaa acactttata ctttaaaaaa aaaa                                2134
```

<210> 6453
<211> 5612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(2673)
<223> similar to gi1263890 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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tgcaggggt ctctgtgctg ctgctgcagg tggtgctgct gctgcggtga gcgtgagacc   120
cgcaccccg aggagctgac catccttgga gaaacacagg aggaggagga tgagattctt   180
ccaaggaaag actatgagag tttggattat gatcgctgta tcaatgaccc ttacctggaa   240
gttttggaga ccatggataa taagaaaggt cgaagatatg aggcggtgaa gtggatggtg   300
gtgtttgcca ttggagtctg cactggcctg gtgggtctct ttgtggactt ttttgtgcga   360
ctcttcaccc aactcaagtt cggagtggta cagacatcgg tggaggagtg cagccagaaa   420
ggctgcctcg ctctgtctct ccttgaactc ctgggtttta acctcacctt tgtcttcctg   480
gcaagcctcc ttgttctcat tgagccggtg gcagcaggtt ccgggatacc cgaggtcaaa   540
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gtccttggag tgctgttcag tgtggctgga gggctcttcg tggggaagga aggccccatg   660
atccacagtg gttcggtggt gggagctggc ctccctcagt ttcagagcat ctccttacgg   720
aagatccagt ttaacttccc ctatttccga agcgacaggt atggaaagag acaagagaga   780
ctttgtatca gcaggagcgg ctgctggagt tgctgcagct ttcggggcgc caatcggggg   840
taccttgttc agtctagagg agggttcgtc cttctggaac caagggctca cgtggaaagt   900
gctctttgt tccatgtctg ccaccttcac cctcaacttc ttccgttctg ggattcagtt   960
tggaagctgg ggttccttcc agctccctgg attgctgaac tttggcgagt ttaagtgctc  1020
tgactctgat aaaaaatgtc atctctggac agctatggat ttgggtttct cgtcgtgat  1080
gggggtcatt ggggggcctcc tgggagccac attcaactgt ctgaacaaga ggcttgcaaa  1140
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cagccccgtc actctggcct tgttcttcgt tctctatttc ttgcttgcat gttggactta  1500
cggcatttct gttccaagtg gccttttgt gccttctctg ctgtgtggag ctgcttttgg  1560
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cgcggtaacg agaaggagtt catgaagggc aaccagctca tcagcaacaa catcaagttc  2040
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gactacccgc ggtaccccga catccacgac ctggacctga cgctgctcaa cccgcgcatg  2460
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gctgtgggag agatcgtggg gatcatcaca cggcacaacc tcacctatga atttctgcag  2640
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cccgggctgc actcccgagc agtgttccct ggcccatctt tgctactttc cctagagaac  3060
cccggctgtt gccttaaatg tgtgagaggg acttggccaa ggcaaaagct ggggagatgc  3120
cagtgacaac atacagttgc atgactaggt ttaggaattg ggcactgaga aaattctcaa  3180
```

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actctcctta gaaccaccgc ccaccagaaa cataaaggat taaaatcaca ctaataaccc    3360
ctggatggtc aatctgataa taggatcaga tttacgtcta ccctaattct taacattgca    3420
gctttctctc catctgcaga ttattcccag tctcccagta acacgtttct acccagatcc    3480
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cagtgaccac tgaaaggtat gtgctatgat aaagcagatg gcctatttga ggaagagggt    3720
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tggggctgct tcaaggtctt ttctagctga ttgtggcccc tccattttcc gcattttctt    4320
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agaatggtgt gatcacctgt cacagacact ttgtcccctc tccccgcccc ttcctggagc    4620
tggcagagct aacgccctgc aggaggaccc cggcctctcg agggctggat cagcagccgc    4680
ctgccctgag gctgccccgg tgaatgttat tggaattcat ccctcgtgca catcctgttg    4740
tgtttaagtc accagatatt ttgttcccat cagtttagcc cagagataga cagtagaatg    4800
caaataccttc cctcccctaa actgactgga cggctgccaa ggaggcccca aacccaggcc    4860
ccatgcaaag gcacgtggtt tccttttctc ctctctctgc atctgcgctt tccagataag    4920
cccaaagaca gcaacttctc cactcatgac aaatcaactg tgaccctcgc tccttccatt    4980
tctgtccatt agaaaccagc cttttcagca tctcacccat tagcagcccc atcacccagt    5040
gatcagtcgc ctcagtaaag cagatctgtg gatggggagc ctacgggtgg taagaagtgg    5100
tgttttgtgt ttcatctcca gcttggtgtt ccatggcccc taggcgaggt gatcagggag    5160
tggggccaat gggcccccgg ccctggcttt gggaccttgt gctgagggat gatttgctcc    5220
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gtatggcatt tgtgatgcag aattatgcac tgacatgacc ctgggtgaca ggaaagcctt    5340
tcgagaggcc caaggtggcc tcgccagccc tgcagtattg atgtgcagta ttgcaccaca    5400
gctctgcgga ccttggccat tgccgcagtc gcagcttcct tttttctgtt tgcactgttt    5460
gtttgtatga tgttagctaa ttccactgtg tatataaatt gtatttttt taatttgtaa    5520
aatgctattt ttatttgaac ctttggaact tgggagttct cattgtaacc ctaacatgtg    5580
agaataaaat gtcttctgtc tcaaaaaaaa aa                                   5612
```

<210> 6454
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (742)...(321)
<223> similar to gi5817185 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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ggaggctgcc gtggtcaaga agggccaagc cttgaagtct cacggcaccc cctgtggtgg     180
aggtataagg ctcaggggcc aactactggg tcttgcagtc cccatcgttg ctgtgggctg     240
tcttcacctt ctttagttcc ttctgtagct cagactcggc caccacaacc tcctttggct     300
tctggtaaga gatgatcagg gtgcagttgg cgtgggcaaa gctcagcaag gcgtcatcca     360
gaggtagctg gtgtctatct agatcaggaa tggagaactt cttgtagtac ttcttgttgg     420
ttgttctgac aatgatgcag cgctccttct ggtccacaga gacactatag acatccttag     480
gatagggggag gtttcgaatc cgccactgga aactcatctt ggtgtccttg cgcatgaaga     540
taggattggc attgctttcc ttgatgagtt caggccccag gttccctgct cctaggggcg     600
ctgggtctcc tacttcaagc tgccactggc ccatggctcc cagggcactt ttcacacgcc     660
actttctcac aagtagttca ctcgtcttct cgtcatattc ttcagccatt tccttgccgt     720
ctgggaataa atagtgaacc ttccttctcc cgtcctgcag cagcgcagtc ttctgggctg     780
tccgcagact ctccaaccag cccgtcaccg ccatctttcc cctgctaagc agcacgccca     840
gccgctgcca tggcaac                                                    857
```



```
     <210> 6455
     <211> 3402
     <212> DNA
     <213> Homo sapiens

     <220>
     <221> misc_feature
     <222> (235)...(2092)
     <223> similar to gi4774232 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters
```



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     <400> 6455
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gcttagcgga ggaggcggca gtggcgagct gggggggaggg gggactctta ttttgttagg     180
gggaccgggc cgaggcccga ccggcctggc agggctcgcc cggggccggg cgtcatgtct     240
catgcggccg aaccagctcg ggatggcgta gaggcccagc gcggagggcc ctcgagccgt     300
gttcgtgctg ttggaggagc gcaggccggc cgactcggct cagctgctca gcctgaactc     360
tttgcttccg gaatccggga ttgttgctga catagaatta gaaaacgtcc ttgatcctga     420
cagcttctac gagctcaaaa gccaacccctt accccttcgc tcaagcctcc caatatcact     480
gcaggccaca ccagccaccc cagctacact ctctgcatcg tcttctgcag ggggctccag     540
gacccctgcc atgtcgtcat cttcttcatc gagggtcttg ctgcggcagc agctaatgcg     600
ggcccaggcg caggagcagg agaggcgtga gcgtcgggaa caggccgccg cggctccctt     660
ccccagtcct gcacctgcct ctcctgccat ctctgtggtt ggcgtctctg ctggggggcca     720
cacattgagc cgtccacccc ctgctcaggt gcccagggag gtgctcaagg tgcagaccca     780
tctggagaac ccaacgcgct accacctgca gcaggcgcgc cggcagcagg tgaaacagta     840
cctgtccacc acactcgggc ccaagctggc ttcccaggcc ctcacccccac cgccggggcc     900
cgcaagtgcc cagccactgc ctgcccctga ggctgcccac actaccggcc ccacaggcag     960
tgcgcccaac agccccatgg cgctgctcac catcgggtcc agctcagaga aggagattga    1020
tgatgtcatt gatgagatca tcagcctgga gtccagttac aatgatgaaa tgctcagcta    1080
```



```
tctgcccgga ggcaccacag gactgcagct ccccagcacg ctgcctgtgt cagggaatct    1140
gcttgatgtg tacagtagtc aaggcgtggc cacaccagcc atcactgtca gcaactcctg    1200
cccagctgag ctgcccaaca tcaaacggga gatctctgag accgaggcaa aggcccttt     1260
gaaggaacgg cagaagaaag acaatcacaa cctaattgag cgtcgcaggc gattcaacat    1320
taacgacagg atcaaggaac tgggcactct catccctaag tccagtgacc cggagatgcg    1380
ctggaacaag ggcaccatcc tgaaggcctc tgtggattat atccgcaagc tgcagaagga    1440
gcagcagcgc tccaaagacc tggagagccg gcagcgatcc ctggagcagg ccaaccgcag    1500
cctgcagctc cgaattcagg aactagaact gcaggcccag atccatggcc tgccagtgcc    1560
tcccactcca gggctgcttt ccttggccac gacttcggct tctgacagcc tcaagccaga    1620
gcagctggac attgaggagg agggcaggcc aggcgcagca acgttccatg tagggggggg    1680
acctgcccag aatgctcccc atcagcagcc ccctgcaccg ccctcagatg cccttctgga    1740
cctgcacttt cccagcgacc acctggggga cctgggagac cccttccacc tggggctgga    1800
ggacattctg atggaggagg aggaggggt ggtgggagga ctgtcggggg gtgccctgtc    1860
cccactgcgg gctgcctccg atcccctgct ctcttcagtg tccctgctg tctccaaggc    1920
cagcagccgc cgcagcagct tcagcatgga agaggagtcc tgatcaggcc tcacccctcc    1980
cctgggactt tcccacccag gaaaggagga ccagtcagga tgaggccccg ccttttcccc    2040
caccctccca tgagactgcc ctgcccaggt atcctggggg aagaggagat gtgatcaggc    2100
cccaccctg taatcaggca aggaggagga gtcagatgag gccctgcacc ttccccaaag    2160
gaaccgccca gtgcaggtat ttcagaagga gaaggctgga gaaggacatg agatcagggc    2220
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tccgtcctgg cacagaagag gagtcaagta atggaggtcc cagccctggg ggtttaagct    2460
ctgccccttc cccatgaacc ctgccctgct ctgccaggc aaggaacaga agtgaggatg    2520
agacccagcc ccttcccctg ggaactctcc tggccttcta ggaatggagg agccaggccc    2580
caccccttcc ctataggaac agcccagcac aggtatttca ggtgtgaaag aatcagtagg    2640
accaggccac cgctagtgct tgtggagatc acagccccac ccttgtccct cagcaacatc    2700
ccatctaagc attccacact gcagggagga gtggtactta agctcccctg ccttaacctg    2760
ggaccaacct gacctaacct aggagggctc tgagccaacc ttgctcttgg ggaaggggac    2820
agattatgaa atttcatgga tgaatttttcc agacctatat ctggagtgag aggcccccac    2880
ccttgggcag agtcctgcct tcttccttga ggggcagttt gggaaggtga tgggtattag    2940
tgggggactg agttcaggtt accagaacca gtacctcagt attctttttc aacatgtagg    3000
gcaagaggat gaaggaaggg gctatcctgg gacctcccca gcccaggaaa aactggaagc    3060
cttcccccag caaggcagaa gcttggagga gggttgtaaa agcatattgt accccctcat    3120
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ttccccaccc agttcttcat ttggaggaat caccccattt cagagttatc aagagacact    3240
ccccctcca ttcccacccc tcatacctac acccaaggtt gtcagctttg gattgctggg    3300
gccaggcccc atggagggta tactgagggg tctataggtt tgtgattaaa ataataaaag    3360
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<400> 6456
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tgttgacacc  ggaactaccg  ttaaagtgca  agtttgtt   tgtgttcctt  tgtgcagttt     180
cactcacatg  taaacaagtc  acttggctat  gatttgaccc  acgcccccc   gcttagtttc    240
gggagggcag  aggctctacc  ggctgtcaca  gcaacccgga  atcacagaca  agataatgcc    300
ccgtgggtcc  tgaccctcaa  gcgggcatga  cggtttcttg  aagcctagca  gaggctggat    360
aacttcacat  ccctcccca   ccccgcgctc  actcttaggt  ctttgagaag  ataaatccac    420
cctcggctgg  gccctcgctc  ccaaagttat  gggggtggcg  ggcctcaatg  ggggaccggg    480
ggtggggaat  agtcccagtc  ttggcccgtt  ctctttcctt  ccggagcaga  tgaccatccc    540
ttctcggttc  agtggcgcct  ccccagtgct  ggggggcggat  cgccgggagg  ggagacgcca   600
gtccgcgcgc  gctcccggcc  tggggcgcac  cgggccgttg  gatttgactt  aacaaaaagg    660
tcctccttag  gttgtgtcgc  cagcgcggcg  gggctcctag  ctgatgacgc  agcgctcctt    720
gtccttggcc  tggctgccgg  cgctggcctt  ctcgcggatg  tacatgaggt  cgctgtgtac    780
gctgggccgg  cgcgcgaagg  gtgccacgat  gccaaaggcg  tcgcccgggt  cgccgccgcc    840
gccgccgctg  ccggcccgca  gcaggcttct  tgttccgcag  cgccttcttg  tgcaggcacg    900
tcgcagtact  gcaccgagac  cttgcggtgc  aggtctgggc  tcatctcgct  gggcagcttg    960
gccatggcga  agagcgcgcg  gaacatctgg  tccaggctgc  tgttcttctt  ggccgagatc   1020
tcgaagtagg  cgcagcgctg  ggggtcgtcg  cccaccagct  gctcgatctc  gcgctggtcc   1080
acctcgcggt  agaagtcgcg  gtcccctttg  ttgccgcaga  tgaccagggg  cacgtccacg   1140
ttctccttgg  ttttgttctt  gaggcaagac  ttggtgtcga  ggatctgctg  cctgagccgc   1200
tgcacctcct  cgaaggagtc  gcggttgtcc  aagctgaaca  ccaggatgaa  aacgtctcct   1260
gtgaggatgg  agaggcgccg  catggcggga  aacgggtggt  tgccggacgt  gtcgaggatg   1320
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ggcgtgtagg  cgtcctcgaa  gcggccggtg  aggaagcgcg  acacgatggc  cgtcttgccc   1440
accttggacg  agccgaggat  gaccatgcga  tagcagttct  tggccgggat  actcagctcc   1500
gagtcgctcg  ggcacatctt  cttgatcatc  gcggccagtt  tcattgggca  gaggggccgc   1560
gagggcgggc  gcggggcc                                                     1578
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<210> 6457
<211> 3281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (702)...(2987)
<223> similar to gi5689553 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
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<400> 6457
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gtgacggtgg  cgcacaagaa  ggctccgccg  gccctgatcg  acgagtgcat  cgagaagttc     60
aatcacgtca  gcggcagccg  ggggtccgag  agcccccgcc  ccaacccgcc  ccatgccgcg    120
cccacaggga  gccaggagcc  tgtgcgcagg  cccatgcgca  agtccttctc  ccagcccggc    180
ctcgctcgc   tggcctttag  gaaggagctg  caggatgggg  gcctccgaag  cagcggcttc    240
ttcagctcct  tcgaggagag  cgacattgag  aaccacctca  ttagcggaca  caatattgtg    300
cagcccacag  atattcgagg  aaaattcgaa  ctattgctct  ttaacgattg  ggccagtctg    360
aagtttacct  catcagtcct  gacaccaaaa  aaattaggca  ttgggagaaa  aattttttaag   420
ggagatatcc  ttttgctctc  agggcatcag  acaccgtgga  ccactttggg  ttttatctgt    480
```

5086

```
cgggagtctt ccggaggtgg cggctttcat tttgtctgtt acgtgtttca gtgcacaaat    540
gaggctctgg ttgatgaaat tatgatgacc ctgaaacagg ccttcacggt ggccgcagtg    600
cagcagacag ctaaggcgcc agcccagctg tgtgagggct gcccccccctg caaagccctg    660
ccacaagctc tgtgagagga tagagggaat gaattcctcc caaaacaaaa ctagaactgc    720
aaaagcaccc tgacgacatt aacccaatca ggagcaggcg actattttg aagaggttca    780
gaaattgaga ccgagaaatg agcagcgaga gaatgaattg attatttctt ttttgagatg    840
tttatttgaa gagaaacaga aagaacacat ccatattggg gagatgaagc agacatcgca    900
gatggcagca gagaatattg gaagtgaatt accacccagt gccactcgat ttaggctaga    960
tatgctgaaa aacaaagcaa agagatcttt aacagagtct ttagaaagta tttttgtcccg   1020
gggtaataaa gccagaggcc tgcaggaaca ctccatcagt gtggatctgg atagctccct   1080
gtctagtaca ttaagtaaca ccagcaaaga gccatctgtg tgtgaaaagg aggccttgcc   1140
catctctgag agctccttta agctcctcgg ctcctcggag gacctgtcca gtgactcgga   1200
gagtcatctc ccagaagagc cagctccgct gtcgccccag caggccttca ggaggcgagc   1260
aaacaccctg agtcacttcc ccatcgaatg ccaggaacct ccacaacctg cccgggggtc   1320
cccgggggtt tcgcaaagga aacttatgag gtatcactca gtgagcacag agacgcctca   1380
tgaacgaaag gactttgaat ccaaagcaaa ccatcttggt gattctggtg ggactcctgt   1440
gaagacccgg aggcattcct ggaggcagca gatattcctc cgagtagcca ccccgcagaa   1500
ggcgtgcgat tcttccagca gatatgaaga ttattcagag ctgggagagc ttcccccacg   1560
atctcctttta gaaccagttt gtgaagatgg gccctttggc cccccaccag aggaaaagaa   1620
aaggacatct cgtgagctcc gagagctgtg gcaaaaggct attcttcaac agatactgct   1680
gcttagaatg gagaaggaaa atcagaagct ccaagcctct gaaaatgatt tgctgaacaa   1740
gcgcctgaag ctcgattatg aagaaattac tccctgtctt aaagaagtaa ctacagtgtg   1800
ggaaaagatg cttagcactc caggaagatc aaaaattaag tttgacatgg aaaaaaatgca   1860
ctcggctgtt gggcaaggtg tgcccacgtc atcaccgagg tgaaatctgg aaatttctag   1920
ctgagcaatt ccaccttaaa caccagtttc ccagcaaaca gcagccaaag gatgtgccat   1980
acaaagaact cttaaagcag ctgacttccc agcagcatgc gattcttatt gaccttgggc   2040
gaacctttcc tacacaccca tacttctctg cccagcttgg agcaggacag ctatcgcttt   2100
acaacatttt gaaggcctac tcacttctag accaggaagt gggatattgc caaggtctca   2160
gctttgtagc aggcattttg cttcttcata tgagtgagga agaggcgttt aaaatgctca   2220
agtttctgat gtttgacatg gggctgcgga aacagtatcg gccagacatg attattttac   2280
agatccagat gtaccagctc tcgaggttgc ttcatgatta ccacagagac ctctacaatc   2340
acctggagga gcacgagatc ggccccagcc tctacgctgc cccctggttc ctcaccatgt   2400
ttgcctcaca gttcccgctg ggattcgtag ccagagtctt tgatatgatt tttcttcagg   2460
gaacagaggt catatttaaa gtggctttaa gtctgttggg aagccataag cccttgattc   2520
tgcagcatga aaacctagaa accatagttg actttataaa aagcacgcta cccaaccttg   2580
gcttggtaca gatggaaaag accatcaatc aggtatttga aatggacatc gctaaacagt   2640
tacaagctta tgaagttgag taccacgtcc ttcaagaaga acttatcgat tcctctcctc   2700
tcagtgacaa ccaaagaatg gataaattag agaaaaccaa cagcagctta cgcaaacaga   2760
accttgacct ccttgaacag ttgcaggtgg caaatggtag gatccaaagc cttgaggcca   2820
ccattgagaa gctcctgagc agtgagagca agctgaagca ggccatgctt accttagaac   2880
tggagcggtc ggccctgctg cagacggtgg aggagctgcg gcggcggagc gcaaagccca   2940
gcgaccggga gcctgagtgc acgcagcccg agcccacggg cgactgacag ctctgcagga   3000
gagattgcaa caccatccca cactgtccag gccttaactg agagggacag aagacgctgg   3060
aaggagagaa ggaagcggga agtgtgcttc tcaggagga aaccggcttg ccagcaagta   3120
gattcttacg aactccaact tgcaattcag ggggcatgtc ccagtgtttt ttttgttgtt   3180
tttagatact aaatcgtccc ttctccagtc ctgattactg tacacagtag ctttagatgg   3240
cgtggacgtg aataaatgca acttatgttt taaaaaaaaa a                       3281
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<220>
<221> misc_feature
<222> (153)...(4075)
<223> similar to gi136404 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6458
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cccccctatgg ttatcaacta gacttagatt tcctcaaata tgtggatgac atacagaagg   180
gaaataccat caaaagactg aacatccaga agaggcggaa gccgtccgtg ccatgcccag    240
aacccaggac cacatctggt cagcaaggta tatggacttc cactgaatcc ctctcatcct    300
ccaacagtga tgacaacaag cagtgcccca acttcctcat agccagaagt caagttacat    360
caactccaat ctcaaagcca cctcccctc tggagacctc actcccttt cttaccatcc      420
cagaaaatcg acagctgcca cctccctcac cacaactccc aaagcataac cttcatgtca    480
ccaagacact gatggagacc cggagaagac tggaacagga gagagccacc atgcagatga    540
caccgggtga gttcagaagg cccaggctgg ccagttttgg aggcatgggc accacaagct    600
ccctcccttc ttttgtgggt tctggaaacc acaatcctgc caagcaccag cttcagaatg    660
gataccaagg taatggggat tatggtagct atgccccagc tgctcccacc acttcctcca    720
tggggagctc catccgccac agccccctga gctcagggat ctccacccca gtgaccaacg    780
tgagccccat gcacctgcag cacatccgcg agcagatggc cattgctctg aaacgcctga    840
aggagctgga ggagcaggtg cgaaccatcc ctgtgctcca ggtaaagatc tctgtcttgc    900
aagaagagaa aaggcagttg gtctcacagc tgaaaaacca aagggctgca tcccagatca    960
atgtctgtgg tgtgaggaag cggtcctata gtgcggggaa cgcctcccag ctggaacagc   1020
tctcccgggc ccgaagaagt ggcggggaat tatacattga ctatgaggag gaagaaatgg   1080
agaccgtaga acagagcacg cagaggataa aggagttccg gcaactttac agcagacatg   1140
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aatggagagt gccggtctgt ggctgtgggt gccgaggaga acatgaacga catcgtcgtg   1260
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cagcttagag aaaccaccca tgaccgggag atgactaaac tgaaacaaga gctgcaggct   1500
gctggatcga ggaaaaaggt tgacaaagcc acgatggccc agccgcttgt tttcagtaag   1560
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gacacgtgtg ttgggacctc cgtggaaaca aacagtgtag gcatctcctg ccagcctgaa   1680
tgtaagaata aagtcgtagg gcctgagctg cctatgaatt ggtggattgt taaggagagg   1740
gtggaaatgc atgaccgatg tgctgggagg tctgtggaaa tgtgtgacaa gagtgtgagt   1800
gtggaagtca gcgtctgcga aacaggcagc aacacagagg agtctgtgaa cgacctcaca   1860
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gttagccagg tggaagctgc cgtcatggca gtgcctcgta ctgcagacca ggacactagc   2040
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tgcaccaaca cttgtctaag cactttggac aagcagacca gcacccagac tgtggagacg   2160
cggacagtag ctgtaggaga aggccgtgtc aaggacatca actcctccac caagacgcgg   2220
tccattggtg ttggaacgtt gctttctggc cattctgggt ttgacaggcc atcagctgtg   2280
aagaccaaag agtcaggggt ggggcagata aatattaacg caactatct ggttggtctc    2340
aaaatgagga ctatagcttg tgggccacca cagttgactg tggggctgac agccagcaga   2400
aggagcgtgg gggttgggga tgaccctgta ggggaatctc tggagaaccc ccagcctcaa   2460
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cctcactcac agatgggctc cctcaactct cagctcatca gcaccctgtc gtctatcaac   2640
tctgtcatga aatctgcaag cactgaagag ctgaggaacc ctgacttcca gaaaaccagt   2700
ctgggtaaaa tcacaggcag ttatttggga tatacctgta agtgtgggg ccttcagtca    2760
ggaagtccct taagctccca gacatcccag cctgagcaag aagtggggac ctcagaagga   2820
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                                  5088

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ctgacagacg accagatcgc cgctggcctc tatgcatgta caaacaatga aagtacactg    2940
aagtccatca tgaagaagaa agatggtaac aaagattcaa atggcgcaaa aaagaatctt    3000
cagtttgttg gcattaatgg agggtatgaa acaacttcaa gtgatgattc cagctcagat    3060
gaaagctctt cttccgagtc agatgacgag tgtgatgtca ttgagtatcc tcttgaagaa    3120
gaggaggagg aggaggatga agacactcgg ggaatggcag aagggcacca tgcagttaat    3180
attgaaggtt tgaagtctgc cagggtggaa gatgaaatgc aggttcaaga atgtgaacct    3240
gagaaggtgg aaatcagaga gaggtatgaa ttaagtgaaa agatgttgtc tgcatgcaac    3300
ttactgaaaa atactataaa tgaccccaaa gctttgacca gcaaagatat gaggttctgt    3360
ctgaacaccc tccagcacga gtggttccgc gtgtccagtc agaagtcagc cattccagcc    3420
atggtggggg actacatagc tgcttttgag gccatttccc cagatgtcct ccgctatgtc    3480
atcaacttgg cagacggcaa cggcaacaca gccctccatt acagcgtgtc ccactccaac    3540
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gcaggctaca cccccatcat gttggcggcc ctcgccgctg tggaagcaga gaaggacatg    3660
cggattgtgg aagaactctt cggctgtggg gatgtgaatg ccaaagctag tcaggcggga    3720
cagacggccc tcatgctggc ggtcagtcac ggacggatag acatggtgaa gggccttctg    3780
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cacctagagg acaacgatgg cagcactgcg ctctcaatcg ccctggaagc aggacacaag    3960
gacatcgctg ttcttctgta tgcccatgtc aactttgcaa aagcccagtc tccgggcacc    4020
cctaggcttg gaaggaagac gtctcctggc cccacccacc gaggttcatt tgattgattg    4080
tatgcaaata gcccttttatt tacatgccac tattaagctg ctaattgttc ctgttggggt    4140
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ccaggggtaa aggctgaagc tttcacagtg cagagactgc tagcctgggc acacgcacct    4260
cctttctggc cgtcttctgt gtagggcaca ctttaacca gtctctgttg ctgttgagtc    4320
tctgctccgt tttgtacagt cacagggaat tctgatctga aggggcacct tctgttcact    4380
cccacaaagt ggtgtctggt tctcactgag acgttttaag atttttccac aaatatttat    4440
atgtactaaa tgtggaacca ttagaaagtt cttccaaaat ctcattccag catagttttg    4500
gatttttctt ttgtcttatt ttaaaataag gaagtcgaga tgactttgat cattggtaac    4560
ttgggcctgg gccagacaaa gtataaaact acaaaagaa tattctcatt tggtcttaac    4620
taggtagatg taatatatga cttttttataa aaagggtatc tatatgaact tgacacagta    4680
ttttcagctt ttgtattcca tactaaagcc atgaagaact acacgtaaca tcatcatttg    4740
tattaattgc acaactccaa tgctaaaggt tggattgtgt tagaggaatc ggctctgtat    4800
ttgcctctag agaaacacag tgttctcttt gtatttatgg attcctttt accgtgtcac    4860
atttactttg gtcctctatg tatttaaatg tttgaagtgc cttagactct tgccatattt    4920
tcaaaataaa attccattaa gctcttaaaa aaaaaa                              4956
```

o

```
<210> 6459
<211> 4704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(1731)
<223> similar to gi4884361 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



<400> 6459
tttcgtgctt aaggaagtaa aatggcggac ctggcgaacg aagaaaagcc tgccattgct    60
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5089

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ccgcccgtct ttgtgtttca gaaggataaa ggacaaaagt cccctgcaga gcaaaaaaac      120
ttgtcggatt cgggagagga gcctcggggg gaggctgagg cccccacca tggcacgggt      180
caccccgagt cagctggcga gcatgcccta gaacctcctg cccctgctgg cgcctcagcc      240
agcactcctc cgcctcccgc tcctgaagcc cagcttcctc cttttccgcg agaactggca      300
gggaggtcag ctggcggctc cagtcctgaa ggcggagaag attctgacag agaagatgga      360
aattactgcc ctcctgtcaa gcgagaaaga acatcctctt taacccagtt cccaccctca      420
cagtcagagg aaaggagcag tggcttccgg ttgaagccac caacgctgat ccacggccaa      480
gcccccagcg caggtctgcc aagccagaag cccaaggagc agcagcggag cgtgcttcgc      540
ccggcagtgt tacaagctcc gcagccaaag gcgctgtccc agactgtccc cagcagtggc      600
accaacgggg tcagcctccc agcagactgc acggggcag tgcccgcagc atccctgac        660
actgctgcat ggagaagtcc ttccgaagct gccgatgagg tgtgtgcact tgaggagaaa      720
gagccccaga aaaatgagtc cagcaatgcc tctgaagagg aagcctgtga gaaaaaagac      780
cccgccacac agcaagcctt tgtatttggg cagaacttga gggacagagt taagctgata      840
aatgagagcg tggacgaagc cgacatggag aatgctggac accccagcgc agacacgcca      900
accgcaacga actatttcct ccagtatatc agttccagtt tagagaactc aaccaatagt      960
gccgacgcct ccagcaacaa atttgtattt ggccagaaca tgagcgagcg agttttgagc     1020
cccccaaaat taaacgaggt cagttcagat gccaacaggg aaaatgcagc tgccgagtca     1080
gggtctgagt cctcgtccca ggaggccacc cctgagaaag agtccctggc tgagtcggca     1140
gccgcctaca ccaaggcaac agcgcggaag tgtttgttgg aaaaagtgga agtcatcacc     1200
ggggaggagg cggagagcaa tgtgttacag atgcagtgca agctgtttgt ctttgacaag     1260
acctcacagt cctgggtgga gagaggccgg gggctgctca gactcaatga catggcgtcc     1320
accgatgacg gcacactaca gtcccgactt agtgatgccg gacccagggg gagcctgcga     1380
catgatcctc aacaccaagc tgtgggccca gatgcagatc gacaaggcca gcgagaagga     1440
gcattcgcat cacagccatg gacaacgagg accagggcgt gaaggtcttc ctgatctcgg     1500
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gcagccgcgt ggagcaggag caggaggcca agatgcccgc gcctgagcct ggggcagccc     1620
catccaacga ggaggacgac agcgacgatg acgatgtcct ggctccttca ggggccaccg     1680
cagctggtgc tggtgacgaa ggggacgggc agacgaccgg gagcacatag cggccgggag     1740
cccggctgca caccaggctg ctgctttgtc cgtctatcca ccgcgcccac ccgcccccac     1800
cccaccggca gcgtccaggt gcggggccgg gaaccacaca ccccactggg ccggccacag     1860
tctggacccg cacgtcctgt tcaaaagcag actcgggaac tgcctgaatg tggtttggga     1920
cacgagacct catcatattg atgagcgaac aaacaagaac atttcctccc tcccctcctt     1980
tgaattgaaa tggcacatta agacttgtca cggcttctca ctgggactgg agacctcgtt     2040
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ccacacccctt cccaccctgc tgtgggggccc tgcctttgtg gggagcagcc agccctctgc     2160
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ttcccctctc tgattggggg tgtatatttt acatctttt ttcttttat tttcgaaggc       2340
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ggtccctgtc ccccacctgt ggttctggcc tctgaggttg ggggactact tgtttcccac     2460
cccaggttcc tccaggccaa gtcatggggt gatgaggagt tggggccctg tctgtcctag     2520
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tgactcccgt ctccatctgt cacgtggttc accatcatca ggcaccaggc gcaaactgct     2640
tcccgctgtt ggccatccct tccccagcca caggtgtccc tgcccccagg acagtccagg     2700
gccaggggct tctgtgagag gcagagggg accctcacca aatcttggtg gaagagccca     2760
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gcccacccga gcctggagca tggccaagag ccagcttgca ccacccacct gggaggccga     2880
ggaggaggtc ccctgggcac agggcctctt tgggacttca gaggaaatct cccagtccca     2940
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gagccctggc ccccagcccc cagcaagcct gagcccggga agaaccagag gccctcccga     3060
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taacgcccat gtgttttgga acatttatgt aagattgtca tatgaaatgt atttgggaac     3180
tacattaaac ttttaactaa aaccctggcc tctgcatgcc ccaggggcct caggaagccc     3240
ctgaccagga acggcctcca cctccccggg cgaggacctc cagcagcctg gggcctcatg     3300
ctcccaccca gcgtgtcacc agtgctgggg tccagccaca gccctgttct ctccaccacc     3360
accccgactt taacccccaa ccctgctgga aggccccgcc ggtctgcccc cgcccagagc     3420
tgccagcctc gggccgctca ccagaatgta gatactgggc ccgctggacg tgttacctgc     3480
```

5090

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tatttttatt ccccatttgc catcttctga ttgggggttg atgttttaca gattttttt    3540
tcaaaggctt tatttcagtt tctgaggtta ggatgcccct gtgcccctcg ctccacacct    3600
gggcaggtct aaacttcctt ccaggatggc ctccacacac agcctcccac ctggggtcac    3660
ctggcttcct gggggacccg caagggaggg gcagggagca gcagtccggg tgcggggatc    3720
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tggggagagc gtttctccct ggggtcctga gccagtgact cctgttagga cctttgtccc    3840
acctccgcct ggtggaccgg cagggacctg gtctagccag tcctgcagcc tccattcccc    3900
cacctgcccc tccccgctct gtggtgtggc tgcccaggag agaaggggcc cagggaaggg    3960
aggtctccgg caggggtggg gagtgacagg ccagggcagc agggctgagc cggagctgct    4020
cacagctgcc aggcactggt catcatggcc acgaactcct catccgtgtt catggaggca    4080
ctcacgccgc tgtagtagtc ctggaattcc gccagtgtga cctgcccgtc cttctcagag    4140
gagtcgaagt tgtccaggaa gcggcgcagc acctcgtcct cggtccactc cccactgcgc    4200
accttggggt gggcacggcc actgtacacc ccgcggaggt cgtccaccgt cacgacgccg    4260
tccccactgc ggtccagctt ggcaaatgca gctgcgatga cagcctcccg ggcctgggac    4320
atggggggcc gcagcgcccg aaggaactcc tccagatcca gcgtcccgct gccattgcgg    4380
tcccacttcc tgcacacacc ctctgcctcc gcctggtcca gcaccagccc gagtttggcc    4440
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ttctccatgg tggcatccac ggcgtccatg cttggtctgg gctctgggca gctggcctgc    4620
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gttgctagtg gacggacgcg tggg                                          4704
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<210> 6460
<211> 5773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1318)...(4281)
<223> similar to gi3882237 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6460
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tttcgtgatc atagctgggg gaggctgagc gtgggagcgg tgctgccagt cctgcctgaa      60
aacgcgaaat gagtcttgct tggttctccc tccactgggc gtgagagccc ctgcccagga     120
ggcccaggac aaatggcccc atagtggaaa ctgggaagct tttaggcatc tgatcagagc     180
gggagccagc cggggggacca cagtgctgga caggccaacc aactcaaact tgaagacatg     240
aaatccccaa ggagaaccac tttgtgcctc atgtttattg tgatttattc ttccaaagct     300
gcactgaact ggaattacga gtctactatt catcctttga gtcttcatga acatgaacca     360
gctggtgaag aggcactgag gcaaaaacga gccgttgcca caaaaagtcc tacggctgaa     420
gaatacactg ttaatattga gatcagtttt gaaaatgcat ccttcctgga tcctatcaaa     480
gcctacttga acagcctcag ttttccaatt catgggaata acactgacca aattactgac     540
attttgagca taaatgtgac aacagtctgc agacctgctg gaaatgaaat ctggtgctcc     600
tgcgagacag gttatgggt gcctcgggaa aggtgtcttc acaatctcat ttgtcaagag     660
cgtgacgtct tcctcccagg gcaccattgc agttgcctta aagaactgcc tcccaatgga     720
cctttttgcc tgcttcagga agatgttacc ctgaacatga gagtcagact aaatgtaggc     780
tttcaagaag acctcatgaa cacttcctcc gccctctata ggtcctacaa gaccgacttg     840
gaaacagcgt tccggaaggg ttacggaatt ttaccaggct tcaagggcgt gactgtgaca     900
gggttcaagt ctggaagtgt ggttgtgaca tatgaagtca agactacacc accatcactt     960
```

```
gagttaatac ataaagccaa tgaacaagtt gtacagagcc tcaatcagac ctacaaaatg   1020
gactacaact cctttcaagc agttactatc aatgaaagca atttctttgt cacaccagaa   1080
atcatctttg aaggggacac agtcagtctg gtgtgtgaaa aggaagtttt gtcctccaat   1140
gtgtcttggc gctatgaaga acagcagttg gaaatccaga acagcagcag attctcgatt   1200
tacaccgcac tttttcaacaa catgacttcg gtgtccaagc tcaccatcca caacatcact   1260
ccaggtgatg caggtgaata tgtttgcaaa ctgatattag acattttga atatgagtgc   1320
aagaagaaaa tagatgttat gcccatccaa attttggcaa atgaagaaat gaaggtgatg   1380
tgcgacaaca atcctgtatc tttgaactgc tgcagtcagg gtaatgttaa ttggagcaaa   1440
gtagaatgga agcaggaagg aaaaataaat attccaggaa cccctgagac agacatagat   1500
tctagctgca gcagatacac cctcaaggct gatggaaccc agtgcccaag cgggtcgtct   1560
ggaacaacag tcatctacac ttgtgagttc atcagtgcct atggagccag aggcagtgca   1620
aacataaaag tgacattcat ctctgtggcc aatctaacaa taaccccgga cccaatttct   1680
gtttctgagg acaaaacttt ttctataaaa tgcatcagtg atgtgagtaa ctatgatgag   1740
gtttattgga acacttctgc tggaattaaa atataccaaa gattttatac cacgaggagg   1800
tatcttgatg gagcagaatc agtactgaca gtcaagacct cgaccaggga gtggaatgga   1860
acctatcact gcatatttag atataagaat tcatacagta ttgcaaccaa agacgtcatt   1920
gttcacccgc tgcctctaaa gctgaacatc atggttgatc ctttggaagc tactgtttca   1980
tgcagtggtt cccatcacat caagtgctgc atagaggagg atggagacta caaagttact   2040
ttccatatgg gttcctcatc ccttcctgct gcaaaagaag ttaacaaaaa acaagtgtgc   2100
tacaaacaca atttcaatgc aagctcagtt tcctggtgtt caaaaactgt tgatgtgtgt   2160
tgtcactta ccaatgctgc taataattca gtttggagcc catctatgaa gctgaatctg   2220
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caggatgaga tgctccctac ataccttgaag gatctttcta ttagcataga caaagcggaa   2520
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tcaacagttc caacccaagt aaattcagaa atgatgacgc acgtgctctc tacggttaat   2640
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cagagttcac agctactaca ttcagtggaa agattttccc aagcattaca gtcaggagat   2760
agccctcctt tgtccttctc ccaaactaat gtgcagatga gcagcacggt aatcaagtcc   2820
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agcttagtga tgacaaccac tgtcagccac aatacgacta tgccattcag gatttcaatg   3060
actttaaga acaatagccc ttcaggcggc gaaacgaagt gtgtcttctg gaacttcagg   3120
cttgccaaca acacaggggg gtgggacagc agtgggtgct atgttgaaga aggtgatggg   3180
gacaatgtca cctgtatctg tgaccaccta acatcattct ccatcctcat gtccctgac   3240
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ggcttttcca tcttgagctt ggcagcctgt ctagttgtgg aagctgtggt gtggaaatcg   3360
gtgaccaaga atcggacttc ttatatgcgc cacacctgca tagtgaatat cgctgcctcc   3420
cttctgggtc gccaacacct ggttcattgg ggtcgctgcc atccaggaca atcgctacat   3480
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tgccatctcg gtcatcacgc tgggagccac ccagcccgg gaagtctata cgaggaagaa   3720
tgtctgttgg ctcaactggg aggacaccaa ggccctgctg gctttcgcca tcccagcact   3780
gatcattgtg gtggtgaaca taaccatcac tattgtggtc atcaccaaga tcctgaggcc   3840
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cccagggacc aaccttgtgt tccatatcat atttgccatc ctcaatgtct ccagggatt   4020
attcatttta ctctttggat gcctctggga tctgaaggta caggaagctt tgctgaataa   4080
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acctgtgttt tctatgagtt ctccaatatc aaggagattt aacaatttgt ttggtaaaac   4200
aggaacgtat aatgtttcca ccccagaagc aaccagctca tccctggaaa actcatccag   4260
tgcttcttcg ttgctcaact aagaacagga taatccaacc tacgtgacct cccggggaca   4320
gtggctgtgc tttttaaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctcggggcag   4380
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5092

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gtttccggga gcagatgcca aaaagacttt ttcatagaga agaggctttc ttttgtaaag   4440
acagaataaa aataattgtt atgtttctgt ttgttccctc cccctccccc ttgtgtgata   4500
ccacatgtgt atagtattta agtgaaactc aagccctcaa ggcccaactt ctctgtctat   4560
attgtaatat agaatttcga agagacattt tcacttttta cacattgggc acaaagataa   4620
gctttgatta aagtagtaag taaaaggcta cctaggaaat acttcagtga attctaagaa   4680
ggaaggaagg aagaaaggaa ggaaagaagg gagggaaaca gggagaaagg gaaaaagaag   4740
aaaaagagaa agatgaaaat aggaacaaat aaagacaaac aacattaagg gccatattgt   4800
aagatttcca tgttaatgat ctaatataat cactcagtgc aacattgaga atttttttt   4860
aatggctcaa aaatggaaac tgaaagcaag tcatggggaa tgaatacttt gggcagtatc   4920
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ccttcatcag aacgacttca agtggataac aatatttata agaaatgaat ggaaggaaat   5040
atgatcctcc tgagactaac tttgtatgtt aaggtttgaa ctaagtgaat gtatctgcag   5100
aggaagtatt acaaagatat gtcattagat ccaagtgctg attaaatttt tatagtttat   5160
cagaaaagcc ttatatttta gtttgttcca cattttgaaa gcaaaaaata tatatttgat   5220
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atggcttcaa gcaggtactt ctctgtgcat tatagaatag attttaataa tcttatagca   5340
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aaattttaca ttcggttgtt ctgtgctcct aatgacactt gaccttgttg aacaaatggc   5580
agagcctttc ccaaggattt gattgtttgt gaattatctg catgtgtgct ttttttggt   5640
gtgtatgtat ttcattaaaa aatataaata cttatgaaaa ttgcacgcat attagagtta   5700
accatgtact attgatacag caacgctaca ttgcaaataa aagtccgatc ccaaaaggag   5760
aatgagacaa aaa                                                      5773
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<210> 6461
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (548)...(99)
<223> similar to gi2570154 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6461
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cgttccgggg ggccagggaa aagtgccaag agggtcaggg gtgaagcagt ccgggccccg   120
ggtccttgga aggggctga aggctgcccg tcgtgggga gggcttggct ggcggaggcc    180
ggagctgcct gtggaggcct tgaagctttg ccagcagctc ctggatgaag tcctcgacag   240
gtttcccaca tgacttcagg agtccctgga ttttccggct tctctcctct tcactctcta   300
actccaacaa ttcatcaatg ttgatctcat cgggcatgtc tgcctccatg ccgcggtaca   360
gctcctccag gcgcccgtcg atccacttct ccacgtccag ccgccgctgc agctcccgcc   420
ggtcatactt gacggtgacg cgcgcgtgcc gcttctgcag ccccccggga ctgccccctg   480
gcccgcgggc ccgcgatgga gactgcagct tgctcagcac gcgcttgccc agccgctgag   540
ctgccatcgc gctgctggac ccagcctggc ccggacgcgt ggg                     583
```

<210> 6462
<211> 4790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (69)...(1134)
<223> similar to gi5689473 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

          <400> 6462
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cggccgagct gtatgaccag gcccttttgg gcatcctgca gcacgtgggc aacgtccagg   120
atttcctgcg cgttctcttt ggcttcctct accgcaagac agacttctat cgcttgctgc   180
gccacccatc ggaccgcatg ggcttcccgc ccggggccgc gcaggccttg gtgctgcagg   240
tattcaaaac ctttgaccac atggcccgtc aggatgatga gaagagaagg caggaacttg   300
aagagaaat cagaagaaag gaagaggaag aggccaagac tgtgtcagct gctgcagctg   360
agaaggagcc agtcccagtt ccagtccagg aaatagagat tgactccacc acagaattgg   420
atgggcatca ggaagtagag aaagtgcagc ctccaggccc tgtgaaggaa atggcccatg   480
gttcacagga ggcagaagct ccaggagcag ttgctggtgc tgctgaagtc cctaggggaa   540
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gtacccaagc acgtggtgaa gggaaagcag gtctcagtgg cccttagcag cagctccatt   720
cgtgtggcca tgctggagga aaatggggag cgcgtcctca tggaagggaa gctcacccac   780
aagatcaaca ctgagagttc tctctggagt ctcgagcccg ggaagtgcgt tttggtgaac   840
ctgagcaagg tgggcgagta ttggtggaac gccatcctgg agggagaaga gcccatcgac   900
attgacaaga tcaacaagga gcgctccatg gccaccgtgg atgaggagga acaggcggtg   960
ttggacaggc ttacctttga ctaccaccag aagctgcagg gcaagccaca gagccatgag   1020
ctgaaagtcc atgagatgct gaagaagggg tgggatgctg aaggttctcc cttccgaggc   1080
cagcgattcg accctgccat gttcaacatc tccccgggg ctgtgcagtt ttaatgacca   1140
gaaggaaagg aaaccctcgc cggtggggag gcagagcctt atcctcggct gcccttcttg   1200
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gcatgtcttc tggttgggat gtggagttgt tgctggactc tcaggcgaag ctgaagtcat   1560
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atgcagcggg gattctgttc tctgactgtg gcgaccttgc tttggttctt gttgaagtga   1860
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caggacccc aagcctatgc cctgagccat ggctgctgac tgactccagc caaggtgcaa   2280
agacgagatt atgagacagg tcctcaggcc tgtgttccaa gtactcacag gggctctggg   2340
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agcaagaatc aaggcccgca gatgctaaga gggcctattg tcaggggaag gtccccgctc    2520
ctgcacactc tctatggata cttgggttgt gggggctctc ttggagagta agtttgtggt    2580
ttgtttctgg tttacagtgg tggctgacac cccttgtaag aaagcattcc tgggaagtct    2640
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cctttggaat gtgagagtct tgttgtctga tatttgccac tgagctggtg aagcccctct    2760
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cccacaagag ctttcctgcc taatgaaagg aggtcttgtg gtgtgtgtct cctctcttct    2940
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ctccctgccc tgctttaata aacagcaaac caatatctag gaagaatgac tgagggatag    3180
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tctgaccctg ctcacccctg gggacaggac ctaggggtgt gagaagtact tggctgaata    4140
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ggagtgccca ctggacgcca gggtgcccca tagggacagg gtcacaaagc cctggggctt    4680
cccctgccag tcctggtgag gacagtgtgg tcactatctc agagagacga aaaatgaata    4740
ttctgtcatt tcagactaaa ctactcaccc agctcacact aaaaaaaaaa                4790
```

<400> 6463

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accgcgagga cgtcagcacc gagctgtacc gggcgctgga ggccgtgagg ctgcagaaca     120
gtgagggttc ctgtgagccg tgccctacgt cgtggctgcc cttcgggggc tcctgctact     180
atttctctgt gccgaagacc acgtgggcag aggcgcaggg ccactgcgcc gatgccagcg     240
cacatctggc gatgtagggg gcctggggga gcaggacttc ctgagtcgtg acactagtgc     300
ccttgaatac tggatcggcc gcagggccgt gcaacacctg cgcaaggttc agggctactc     360
gtgggtggac ggagtcccac tcagcttcag gtaggggaag ggctcctggt gaaacctggg     420
ggccacaggt tagactctag aggacatgtt ttgaggccga ggtgggcgga tcacctgagg     480
tcaggagttc aagaccagca tgggaaacgt ggcgaaaccc catctctact aaaaatacaa     540
aaaattagcc gggcgtggtg gcacacgcct gtaatcccag ctaaccctgg atgctgaggc     600
acgagaatca cttgaaccca ggaggcagag gttgcagtga gccgagattg cgccactgca     660
ctccagcctg ggagacagag ttagactccg tctcaaaaaa aaaa                      704
```


<210> 6464
<211> 4866
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)...(4776)
<223> similar to gi4589590 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6464

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tttcgtctcc gccgctgctg ccgcacctgc caccatgtcg ccgccgccgg gtcatgtctg      60
actctctctg gaccgcgctt tctaatttct cgatgccctc cttccccggc ggcagtatgt     120
tccgccgcac caagagctgc cgcaccagta atcggaaaag cctcatcctg accagcactt     180
cacccacgct accgagaccc cactccccgc tgccaggtca cctaggcagc agtcccctgg     240
acagcccccg aaacttctcc cccaacaccc ccgcccactt ctcgtttgcc tcctcccgaa     300
gggcggacgg acgccggtgg tctctggcct cgctcccttc atctggctat ggcaccaaca     360
cgcccagttc caccgtctcg tcctcctgct cctcccagga gcgccttcac cagctgccct     420
accagcccac ggtggacgag ctccacttcc tctccaaaca cttcgggagc accgagagca     480
tcacagacga ggatggtggc cgtcgctccc cagccgtgcg gccccgctca cggagcctca     540
gccccgggcg ctccccctcc tcctacgaca acgagatcgt gatgatgaat cacgtctaca     600
aggagaggtt cccgaaggcc actgcgcaga tggaggagaa gctgcgcgac ttcacccgcg     660
cctacgaacc cgacagcgtt ctgcctctgg ccgatggcgt gctcagcttc atccaccacc     720
agatcatcga gctggcccgg gactgcctga ccaagtcccg tgacggcctc atcaccacgg     780
tctacttcta tgaattgcag gagaacctgg agaagctcct tcaagacgcc tatgaacgct     840
ctgagagctt ggaggtggcc ttcgttactc agctggtgaa gaagttgctt attatcatct     900
cacgccctgc gaggctgctg gagtgcctgg aattcaaccc cgaggagttc taccacctgc     960
tggaggcggc cgaaggacac gccaaggagg gccaccttgt gaagacggac atcccccgct    1020
acatcatccg ccagctgggc ctcacccgtg accctttcc agacgtggtg catctggagg    1080
aacaggacag tggtggttcc aacaccctg agcaagacga tctctctgag ggccgcagca    1140
gcaaggccaa gaaaccgccg ggggagaatg acttcgatac catcaagctc ataagcaacg    1200
gtgcctacgg cgctgtctac ctggtgcggc accgcgacac gcggcagcgc tttgccatga    1260
aaaagatcaa caagcagaac ttgatcctcc gcaaccagat ccagcaggcc tttgtggagc    1320
```

```
gcgatatcct caccttcgcc gagaacccgt ttgtggtcgg catgttctgc tcctttgaga    1380
ctcggcgcca cctctgcatg gtcatggaat atgtggaagg cggcgactgt gccaccctgc    1440
tgaagaatat tggagcgctg cccgtagaga tggcccgcat gtactttgct gagacggtgc    1500
tagccctgga gtatttgcac aactatggca tcgtgcaccg cgacctcaag cctgacaacc    1560
tccttatcac ctccatgggt cacatcaagc tcacagattt cggcctctcc aagatggggc    1620
tcatgagcct caccaccaac ttatatgaag gccacatcga gaaggacgcc cgagagttcc    1680
tggacaaaca ggtgtgtggg accccagagt acatcgcgcc cgaggtcatc ctgcgtcaag    1740
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agggccccga ggagaaggtg gccggcaagc gggaggggct gggcggcctg accctgcgtg    2340
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aaggggaagg cacctccagc gccggggact ccgaggccac tgaccgtcca cgcccaggtg    2640
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ccccaaagct ctccccggag ccccagacac cctccctagc cccagcgaag tgcagtgcac    4620
ccagcagtgc agtgacccca gtcccacccg catccctctt gggctcgggc accaagcctc    4680
aagtggggct gacctcccgg tgccctgctg aagctgtgcc cccagcaggc ctgaccaaaa    4740
```

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aaggagtgtc cagtcccgca cccccgggac catagccaag ggggtcatcg gccccgcgct      4800
gtacagcctc cgtatacata tgtacacata taaataaagt gcgtccgtgc tgcgtgaaaa      4860
aaaaaa                                                                 4866
```


<210> 6465
<211> 1677
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1443)...(451)
<223> similar to gi3882225 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6465
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tctcggctca ctgcaacctc cgcctcctga ggtcaagtga ttctcctgcc tcagcctccc       120
aaatagctgg gactacaaga gtgcgccacc acgcctagct aattttttgta tttttagtag       180
agacggggtt tcaccttgtt ggccaggctg gtctttaact cctgacctca ggtgatccac       240
ccgcctcggc ctcccaaagt gctgggatta caggcataag ccaccacgcc cagccaggaa       300
agtatttaaa aacaaattaa gcaaagatta taaagtttt tggagtaaca catttcccga       360
aatgatcacg atccacatca agtctgagcc atgttgacat ccccacgtcg gggcccttcc       420
tggtggtcga ggaatcttca gaggtctcta aaatatatta aaaatgtccc aacatttcag       480
gacattccac cggcttttct tgctgggctt cctggttttc ttcttgggct ttctggtttt       540
cacttcctct tccactttgg tcttttctgt tgcttcttct gcaggtgcag aggaaggact       600
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cctcgccgtt gtaactggac agctcctgaa gtacatccct gatcagaagt cggccagtg       960
tgtctgggtc cccctccatc atgtgaactt ctgtggcttc ctcagagact gtctgccctg      1020
gcccatgctc ctccaggtct tccaggtcac cgttggtttg ggtgcctgcg tctgcatggg      1080
caacagtgag gagactctga ttggatgctt cagggagatg ttctgctata aactcctcta      1140
gatgatcttc tgatggaaag catacccttt tcttcacaga gcctggcaac gtctccgaga      1200
gtatctcggg tggacacaat ggcttgccca aggagccttc gtcacgctca cgttgtggaa      1260
ctcccaagga tgtcttcatc gcctcttggt acttcttcca tgtgctgtat aggtggagct      1320
cccgtagtcg ccgtagttgc cgtttcatct caatgtctct ctctgtgtct ttgtccacca      1380
tatgaacgcc caggacatct tcagatgaag cttcctgcac caggtcctca tcgtaatcgt      1440
gttatccagg atggtgtcga tctcttgacc aagtgatcca cccgcctcgg cctcccaaag      1500
tgttggtatt acaggcgtga gccactgtgc ccagcccctg ggatggcctc tatgagggtg      1560
gctggctcca attagcacac gtgtaagcaa actggctggc cttgatgagg acggctaggg      1620
acatctgggc tggctgtcac gtgaataaca gaaatcttct tggctggctt agatgag        1677
```


<210> 6466
```

```
<211> 1058
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)...(565)
<223> similar to gi4884084 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6466
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atggtcgggg cgctgtgcgg ctgctggttc cgcctgggcg gggcccgccc gctcatcccg     120
ttgggcccga ctgtggtaca gacctccatg agccggtccc aggtagccct gctgggcctg     180
agtctgctgc tcatgctcct actgtatgtg gggctgccag gcccccctga gcagacttcc     240
tgcctctggg gagaccccaa tgtcacagtc ctggctggtc tcacccctgg caactcgccc     300
atcttttacc gcgaggtgct cccactcaac caggcacaca gggtggaggt ggtgctgctt     360
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gaggtacaga atgccgtgtt ggtgagcccc tcgctgagtg gccactatgc cctgcccttc     600
ctgatgcgag gccaccacca gctacatgga tttgtgccca tcgcacccac ctccacccag     660
aactacaccc aggagcaatt ctgggctgtg aagactccaa cccttatcct gtatggagag     720
ctggaccaca tcctggctcg agagtcactg cggcagctcc gccacctgcc caaccactct     780
gtggtgaagc tacgcaatgc aggccatgcc tgttacctcc acaagccgca agacttccac     840
cttgtcctgc ttgccttcct tgaccatcta ccttgaacta acccactccc agctcccagc     900
ctggcatgag cttggacagt ctggaccgcc accctccctg aaccagggag acagcctctg     960
ggattggagg ccagaggcca gggtcagacc cagccaggac tcctcatttc atctcacaga    1020
cacaataaaa aagcatattt gtcctgccaa aaaaaaaa                            1058


<210> 6467
<211> 1068
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (478)...(820)
<223> similar to gi5802788 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6467
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aaacttctgc gggcgccggg ctgaagctcc gggcagggct gggaaggaaa ggaaatacca     120
aaatatttgc agactggatc caaatcagga gcccagatga acttaaagaa gcgagcatgg     180
gattcttagt ttttcaagat ccgtacacac gaagccttta atcagcatca actccagtgt     240
ccgttttctc tggttttgtg aagactgcac aaaactctca tgatggagaa ccaaaggact     300
```

5099

```
tagttacctg tttcagtgtc atctaaagtc aactgaaaag tgaagcaggc agtaatacag      360
ccatggaaag aaattcaagt ttatggaaga acctaataga tgaacaccca gtctgcacaa      420
cctggaagca agaggccgaa ggagccattt atcatcttgc cagtatttta tttgtagatc      480
agagtgacag ttgatggcga atttctgcat tacatttttcc cccttcagtt cctggattct     540
cctgagtggg attcactgag acccacagag gaaggcattt ttcaggtaac cctcactgca      600
gaaactgatt gtcgatatgt gtcttggagg agaaagaaat tatatctgct ctttgctcag      660
catcgctaca tctcccgcct tttttcagtg ctaattggca gtgacattgc agataaactc      720
tatgccttga atgacagggt atatatagga aaaagatatc actatgatat tcggctaccc      780
aacttctatc aaatgtcaac tccagaaata cgcagatcac ccctgacaca acattttcag      840
aattccagac gatactggtg ataaatgacc atcaaagtct ggaaatttta taagtataaa      900
aaaagactct ctccttcatc attccccagt ggaaatagca aaatacaaaa aaagagctcc      960
ctaatgtttt tataaatcaa attcagaagc gagatgccat tgccaactgt tttattcctt     1020
tcaacaactg cattgtgaat aaactttaca aatttttctt gtaaaaaa                   1068


        <210> 6468
        <211> 1973
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (26)...(1655)
        <223> similar to gi3337394 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6468
gcacgaggcc cgcactaagg gaaacatggc tctagcgcgg cccggtgcgg ctcttttccc       60
tcgtgactcg gttgctcctg gcgccgcgac ggggcctcac ggtccgcagt cccgacgaac      120
ccctgccggt ggtgcgcatc ccagtggctc tacagcggca gttggaacag cggcagagca      180
ggcggcggaa cctcccgagg ccggtgctgg ttcgacccgg accgctgctg gtttcggcgc      240
ggcggccgga gttgaaccag ccggcgcgcc tcacactggg ccgttgggag cgcgcgccgc      300
tagcctctca aggctggaag agtcgacgcg cgcgtcggga ccacttctcc atcgagcgcg      360
cgcaacagga ggcgccagcg gtgcgaaagc tctcgtctaa gggcagcttt gctgaccttg      420
gggcctggaa gccccgtgtg ctgcacgcac tacaggaggg ctgcgcctga agtcgttcaa      480
gcccacaacc gtgcagtcta gcaccatccc ctcactactt cgcggccgcc atgtcgtttg      540
cgccgcagaa accggcagtg gcaagactct cagctacctc ctgccgctgc ttcaacggct      600
cttgggccca cccaagcctg gactcccttc ctatccccgc gccccgaggc ctggtccttg      660
ttccttcccg agaattggcc caacaggtgc gggctgtggc ccaacccttg ggccgctcct      720
tgggcctgct ggtgcgggac ctggagggag gccacggcat gcgtaggatc aggctgcagc      780
tgtccagaca gccttcagca gatgtgcttg tggccactcc aggggctctg tggaaggccc      840
tgaaaagtcg actgatcagt ctggagcaac tctccttctt ggtgttggat gaggcagaca      900
cactgctgga tgaaagcttc ctggaactgg tggactacat cttagagaag agccacatag      960
cagaaggccc agctgacttg gaagacccct tcaatcccaa agctcagtta gtgctggtag     1020
gagccacatt tcccgaaggt gtaggccagt tgctgaataa agtcgccagc ccagatgctg     1080
tcaccaccat caccagctcc aagctccact gtatcatgcc tcatgtgaaa cagacatttc     1140
tgagactgaa gggagcagat aaggtggccg agctggtgca tcctcaag catcgtgaca       1200
gagcagaaag gactggtccc tcaggaactg ttctggtgtt ctgtaatagc tccagcactg     1260
tgaactggct gggatatatt ctggatgacc acaaaatcca acacctaagg ttgcaggggc     1320
aaatgccagc cttgatgagg gtaggaatct tccagtcctt ccagaagagc tcccgagaca     1380
tacttctctg cacagacata gcctctcggg gcctggacag cactggtgtg gagctggttg     1440
```

                              5100

```
tcaattatga tttcccccca acgctgcaag attacatcca cagagcaggg agagtgggcc    1500
gtgtggggag cgaggtgcca ggcaccgtca tcagttttgt gacccatccc tgggatgtga    1560
gcctggttca gaagattgag ctggcggctc gccgaaggag aagtcttcca ggactagcat    1620
cctcggtgaa agagcctttg ccccaagcaa cctgattttg acaaatctga ttaaaatgtg    1680
atgctagaac agggatcttt cccagtatct tgagtgggtg accacacttg tcagtgggag    1740
gctctgggct gccctgtcgg ctccttgagg gcgggatgaa ctgctttgtg acttggaaag    1800
gtacgctgct ggccagcatt ggagaagaag ctgctgagca tggctttctg tagtctttag    1860
caagacacaa gtggattttg actttgtatc atgtcatgat ttctaacaat aaatgatgtt    1920
tttatgtgca aaaaaaaaa aaagaggggc cccccttata aaaaacaca ttg             1973
```

```
        <400> 6469
cccggtgcga cgatttcgtg gcgaaggtgc gggaacgtcc actcccgcgc gcccctctcg      60
gggaccaggg cggcctccca ggaggagctt ggtttctggt cctcataccg tgtggttgag     120
tgaaatcaaa acttccacga tagcaatgct gattggacaa agaatgtgtt gtggacacaa     180
aaccaaactc tggaggacag aggattcatt ccaaggtaga gatggattcc tggaaatacc     240
tcctcaaggc cagggtagag ccctcaatca cccactgccc ccagcttctc cttctcccat     300
ctcctgcacc aagcaggtct ccaggtgttc cagctgctga tgacgtaaag tgtggagttg     360
gtccaggaag gtcatgttcc atgcagcacg aggagcgctt tgtgtgagaa gttgaagacc     420
tgctgtaaca catcatagag gaaagacata gcctggggcc ttctgcaact ggctgacttc     480
caccttctcc tgggggaatc tgaagtcact tctgtccttt agacacaaga agggagagat     540
tctcctcatt tggcccaaaa gcaccaaggt gttcctgcct agcaggccaa tggttctgag     600
gcaggttata tcctagagat ccagaagagc cacagctgca cacctctagg gctgccagta     660
gagggaagag gaggcccatt gagaaatcag gatgcttttg gcctggatga gctgaggtct     720
tcataaaacc ttggatccta ggttctatga agacattcta tctatgcatg gctttaatgg     780
agcacaaata gttttcattt ttctgagcat ttctctaaat ttttaattcc atttattgtt     840
ttcatttaca tggcttctat atcagcatcc acaacctttt ggccaccagt ttggtggaag     900
ataattttc cacgaaaaat ggggtcaggg agggaatgct ttcagaggca ttagattctc      960
attaggagac cacaacctag atccttcgca tctgcacttc acaatagggt tcctgctctt    1020
ttgagaatcc aatgccactg ctgatctgac aggaggcaga gctcaggcgt taatgcttgt    1080
tggttggcct gcttgcctcc tgctgtgcgg ccctgttcct accaggccag gaccagtacc    1140
ccggtccatg gatgggggtg tgaaaaacct tgttctatat gacataaaag gaggtcgtcg    1200
ctccacactc ttgatttttg caatggattg ttccaatatt cccagtaaac ttaagatata    1260
tcaatccaaa tgaatattga tcaatcagat gagaaacgtc tgtgtgcata ctgttagaag    1320
tatatacttt tagcccagat cctagcctcc agttttaccc tccattttgc ataggaaatc    1380
aggatccctg ggccctatgg gtttctgtat tcagttagca aattacctat ctctggaaat    1440
tcaactttt aggact                                                     1456
```

<210> 6470
<211> 3380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(3065)
<223> similar to gi3811347 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6470
ctgataccccc agcttggcac ggggacgcag ccatggcgga ggcggctttg gaagccgtgc   60
ggagcgagtt acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc   120
cctacctgga caaaccccca actccgctcc acttctaccg ggactgggtc tgccccaaca   180
ggccgtgcat tatccgcaac gctctgcagc actggccggc cctccagaag tggtccctcc   240
cctatttcag agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt   300
acgcggatgc cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga   360
gcttcgtgct ggatgtgctg gagggccggg cccagcaccc tggagtcctc tatgtgcaga   420
agcagtgctc caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg   480
tgccctgggc ctccgaagcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg   540
aggcggctgc agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct   600
caggagagaa gcatttcctg ttccatccgc ccagcgaccg gcccttcatc ccctatgagc   660
tgtacacgcc ggcaacctac cagctaactg aagagggcac ctttaaggtg gtggatgaag   720
aggccatgga gaaggcagag gtgtccagga cctgcctgct cacggttcgt gtcctgcagg   780
cccatcgcct accctctaag gacctagtga cccccctctga ctgctacgtg actctctggc   840
tgcccacggc ctgcagccac aggctccaga cacgcacggt caagaacagc agtagccctg   900
tctggaacca gagctttcac ttcaggatcc acaggcagct caagaatgtc atggaactga   960
aagtctttga ccaggacctg gtgaccggag atgaccctgt gttgtcagta ctgtttgatg   1020
cggggactct gcgggctggg gagttccggc gcgagagctt ctcactgagc cctcagggtg   1080
aggggcgcct ggtaagttga atttcgcctg cagagtctgg ctgaccgtgg cgagtggctc   1140
gtcagcaatg gcgttctggt ggcccgggag ctctcctgct tgcacgttca actggaggag   1200
acaggagacc agaagtcctc agagcacaga gttcagcttg tggttcctgg gtcctgtgag   1260
ggtccgcagg aggcctctgt gggcactggc accttccgct tccactgccc agcctgctgg   1320
gagcaggagc tgagtattcg cctgcaggat gcccccgagg agcaactaaa ggcgccactg   1380
agtgccctgc cctctggtca agtggtgagg cttgtcttcc ccacgtccca ggagcccctg   1440
atgagagtgg agctgaaaaa agaagcagga ctgagggagc tggccgtgcg actgggcttc   1500
gggccctgtg cagaggagca ggccttcctg agcaggagga agcaggtggt ggccgcggcc   1560
ttgaggcagg ccctgcagct ggatggagac ctgcaggagg atgagatccc agtggtagct   1620
attatggcca ctggtggtgg gatccgggca atgacttccc tgtatgggca gctggctggc   1680
ctgaaggagc tgggcctctt ggattgcgtc tcctacatca ccggggcctc gggctccacc   1740
tgggccttgg ccaacctttta tgaggaccca gagtggtctc agaaggacct ggcagggccc   1800
actgagttgc tgaagaccca ggtgaccaag aacaagctgg gtgtgctggc ccccagccag   1860
ctgcagcggt accggcagga gctggccgag cgtgcccgct tgggctaccc aagctgcttc   1920
accaacctgt gggccctcat caacgaggcg ctgctgcatg atgagcccca tgatcacaag   1980
ctctcagatc aacggggagg ccctgagtca tggccagaac cctctgccca tctactgtgc   2040
cctcaacacc aaagggcaga gcttgaccac ttttgaattt ggggagtggt gcgagttctc   2100
tccctacgag gtcggcttcc ccaagtacgg ggccttcaat cccctctgag ctctttggct   2160
ccgagttctt tatggggcag ctgatgaaga ggcttcctga gtcccgcatc tgcttctttta   2220
gaaggtatct ggagcaacct gtatgcagcc aacctccagg gacagcttat actgggcctc   2280
agagcccagc caattctggg gaccgctggg gtcaaggaac caggccaacc tgggacaagg   2340
agcaggtccc ccttctgaag atagaagaac caccctcaac agccggcaga atagctgagt   2400

5102

```
ttttcaccga tcttctgacg tggcgtccac tggcccaggc cacacataat ttcctgcgtg    2460
gcctccattt ccacaaagac tactttcagc atcctcactt ctccacatgg aaagctacca    2520
ctctggatgg gctccccaac cagctgacac cctcggagcc ccacctgtgc ctgctggatg    2580
ttggctacct catcaatacc agctgcctgc ccctcctgca gcccactcgg gacgtggacc    2640
tcatcctgtc attggactac aacctccacg gagccttcca gcagttgcag ctcctgggcc    2700
ggttctgcca ggagcagggg atcccgttcc cacccatctc gcccagcccc gaagagcagc    2760
tccagcctcg ggagtgccac accttctccg accccacctg ccccggagcc cctgcggtgc    2820
tgcactttcc tctggtcagc gactccttcc gggagtactc ggccctgggg tccggcgga     2880
cacccgagga ggcggcagct ggggaggtga acctgtcttc atcggactct ccctaccact    2940
acacgaaggt gacctacagc caggaggacg tggacaagct gctgcacctg acacattaca    3000
atgtctgcaa caaccaggag cagctgctgg aggctctgcg ccccaggcag tgcaaacgga    3060
aggcggcagc gcaaggcccc cactgatggc cggggcccct gcccacccc  taactctcat    3120
tcattcccct ggctgctgag ttgcaggtgg gaactgtcat tcacgcagtg cttcagagcc    3180
tcgggctcag gtggcactgt cccagggtcc aggctgaggg ctgggagctc ccttgcgcct    3240
cagcagtttg cagtggggta aggaggccaa gcccatttgt gtaatcaccc aaaaccccc     3300
ggcctgtgcc tgttttccct tctgcgctac cttgagtagt tggagcactt gatacatcac    3360
agactcatac aaaaaaaaaa                                                 3380
```


<210> 6471
<211> 2851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (845)...(1738)
<223> similar to gi1172105 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

    <400> 6471
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tcagcgcggt ggccagcgcg cagaggcggg cgcggaggcg gctagaaggt gaccgcggat      60
cccagcttcc tgcagccagc cctgaaggat ggctgccata ttgggagaca ccatcatggt     120
ggctaaaggc cttgtcaagc tgacccaggc ggccgtggaa acccacctgc agcacttggg     180
catcggaggg gagctgatca tggcggccag ggccctgcag tccacggctg tggagcagat     240
tggcatgttc ttggggaagg tgcagggtca ggataaacat gaagaatatt ttgctgagaa     300
cttcggcggc ccagaagggg agttccactt ctcagtcccg catgcagccg gagcctccac     360
agacttctct tcagcctccg ctcccgacca gtcagcgccc ccatccctgg gtcatgccca     420
cagcgagggc ccagctcctg cctacgtggc cagtggaccc tttagagaag ccgggttccc     480
cggccaggcc tcctcccctc tgggcagggc caacgggagg ctctttgcaa accccagaga    540
ctcattctct gccatgggct ttcagcgaag gttcttccac caggaccaat cccctgttgg    600
gggcctcaca gccgaggaca ttgagaaggc ccggcaggct aaggctcgcc ccgagaacaa    660
gcagcacaaa cagacgctca gcgagcatgc ccgggagcgg aaggtgcctg tgacgaggat   720
tggccggctg gccaacttcg gaggtctggc cgtgggcctg ggcttcgggg cactggcaga    780
ggtcgccaag aagagcctgc gctccgagga cccctcaggg aagaaggccg tgctgggttc    840
cagtcctttc ctgtccgagg ccaatgcaga gcggatcgtg cgcacgctct gcaaggtgcg    900
tggtgcggca ctcaagctgg gccagatgct gagcatccag gatgatgcct ttatcaaccc    960
ccacctggct aagatcttcg agcggggtgcg gcagagcgcg gacttcatgc cactgaagca    1020
gatgatgaaa actctcaaca acgacctggg ccccaactgg cgggacaagt ggaatactt     1080
cgaggagcgg ccccttcgccg ccgcatccat tgggcaggtg cacttggccc gaatgaaggg    1140
cggccgcgag gtggcccatg aagatccagt accctggcgt ggcccagagc atcaacagtg    1200
```
```
                                    5103
```

```
atgtcaacaa cctcatggcc gtgttgaaca tgagcaacat gcttccagaa ggcctgttcc   1260
ccgagcacct gatcgacgtg ctgaggcggg agctggccct ggagtgtgac taccagcgag   1320
aggccgcctg tgcccgcaag ttcagggacc tgctgaaggg ccaccccttc ttctatgtgc   1380
ctgagattgt ggatgagctc tgcagcccac atgtgctgac cacagagctg gtgtctggct   1440
tccccctgga ccaggccgaa gggctcagcc aggagattcg gaacgagatc tgctacaaca   1500
tcctggttct gtgcctgagg gagctgtttg agttccactt catgcaaaca gaccccaact   1560
ggtccaactt cttctatgac ccccagcagc acaaggtggc tcttttggat tttggggcaa   1620
cgcgggaata tgacagatcc ttcaccgacc tctacattca gatcatcagg gctgctgccg   1680
acagggacag ggagactgtg cgggcgaaat ccatagagat gaagttcctc accggctacg   1740
aggtcaaggt catggaagac gcccacttgg atgccatcct catcctgggg gaggccttcg   1800
cctctgatga gccttttgat tttggcactc agagcaccac cgagaagatc cacaacctga   1860
ttcccgtcat gctgaggcac cgtctcgtcc ccaccccga ggaaacctac tccctgcaca   1920
ggaagatggg gggctccttc ctcatctgct ccaagctgaa ggcccgcttc ccctgcaagg   1980
ccatgttcga ggaggcctac agcaactact gcaagaggca ggcccagcag tagggctgcg   2040
ggccacgccc aggccggctc cgcgggaact ctctccctca gacaggccaa aaaccagtag   2100
cgaggtcgtg gtgatgctct ttttaactcc tttgcccaat aaggggggtg gctgcctgga   2160
gccccgtagc cagcgctttc cacggtttct gttgctaaat ggttgtaggg tgagaagtgc   2220
aagaatgaag atgaagcccc actgctcggt cagtctgcct ccgtgtgtcc tctgaaataa   2280
gcagatgaag atgaaagggc aactttgttt tcttcttttt cctgatgtga atgttaagca   2340
gaagggagag agtccttact cccttccaat ctctgttcag tgcaaaaccc agaaacatga   2400
acagatacga ttgtgggatt tttatcatct gtgtagtagg tgtgtgtatg tgtttctaga   2460
gtgagatttg tgttttctgc ccttttcctc tccagccgat gggctggagc tgggagaggt   2520
gctgagctaa cagtgccaac aagtgctcct taagcctgcg aggcccaggc ctgtgggggct   2580
ggttctcacc tttgacagct gaatgttcct aaagaactgc tgccccacag tgagggtggg   2640
agcagcggaa cagggaatgc cagacacagg ctcgctgctg ctggaaggcg gggtggggact   2700
tccttcctct gtccggagag gcacaggtgt caccagttcc agccaaaggc tcctcacagg   2760
cgctgtgaat ttttgtacaa gtcttgtaat tatcgaatca acaacttgct tcaatttaat   2820
aaaaatgctc atgggaagtg caaaaaaaaa a                                   2851
```

<210> 6472
<211> 1897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1282)...(265)
<223> similar to gi3877424 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6472
```
tttttttttt ttggtttctt caaaatttta ttaacaaaac ccagggagag gaggcaagga    60
tgagtggact ccgcagcccc accaggcact gaacatgtcg acggggacag tccctctgat   120
aaaggcagat gggcggtcaa ccggtggatg ggcacaggga gaaccggaga aacagatgag   180
tggaggaacg gacacacggg caccgggcgg ctcccccatc tggaatgcag ggtgtaaggg   240
gtccgggcca ggaggctcag cggtcggcac tggagcgcag gtcggtagtg aggggatcgt   300
gctggatcgt ctggtgcagc atcagggcca gcaatcccgc gcggtttgtc atggctgtgc   360
gcacattgcg ctcctgctca aacagctcgt ccagcttgta ccacacacgc acgcgctcca   420
agtccacttc cgcacgccgc agcttctccc agcagtaatg gcgattgcac tggcgcttgg   480
gcaggcggca gaagtcaccc gtgagctcaa agacatcacg tacaaggggg cacccgcata   540
```
```
                                   5104
```

```
cctcgtcagc tggcactttg gggtcccgtg agtgctcggg gcacagcacc tggagccgct      600
tacagtatgt tttgctctga ggattataca catcacagaa gagtcgtgtg gccccttcaa      660
tgcgtgtggg gtacatggac ccaaaggacg tctggctctc atacttggcg tagcagcgct      720
ccatgtggcg caaggcaaca cgtgggttga tggggtgccc acaggaaaca cagaagatct      780
gcaggtctgt gtcatcactg tcaccctcgt tgctctcctc atcctcgcgc acagcctgct      840
gcttggcacg tagaatgatg gcctcaagct catggaatcg gcgttccatt tcctgaaggc      900
gggtgcgggc actctgctgc tctcggcgaa tgcgttcgag cagcttcttg ccgtgctctt      960
cagcaatgca agggctctgc tgccactgct ggatgcgctg ggggaggatc tcgtagatgc     1020
ggttggctgc cagcttcatg ccacagtcat ctgagcaata cttggagctg ggctgggcgg     1080
ggcgcacaca gccggcccag gcactggggc agtgacgcag ggtccttggc atcagccctc     1140
tctgggtgtt tccaattaac cttgtgcttc ctgcttctgc cgaagccgct tgtatcgctc     1200
ctccttcctt cttcctcaga cttccttctc ccgaacgctt cacatgcttc actttcactg     1260
ccctcttccg cagcgcgggg tcccaggaat ggggactctt ctgtgtcgct catcccaggg     1320
caggccattg tcatcaaagg cccctgcaca gaagtccttg ataccaggtc aggatccaga     1380
gggtgggtcc ctcatctgag agtggctcag gtgtgtctgt agcctcagga ggctccttga     1440
ctgttgatga cgccactgcc ccctcatctt cacggatgcg ccctaacttc tgtgatggct     1500
gtggctgctg ttgggtgggc agtggccggc ggggccttgg cagggactct gagggcgtca     1560
ctggtgagag ctgcagggca gaatctcagg actggccctg accgccctgc ccgcatgccc     1620
caccccaccc tggggggctg gactcaccga ggaaggaag tacttgtacg attcctgtgc     1680
cggcaggagg aaggcccagg tcagccccag gtggatggag ggcggccttg ccctagccct     1740
acccacctgg cctggcctta cctccccaga cacacctccc cgctaccct cattgccagg     1800
aatgctcagc cctgcctgat ctgtaccgac atgcatgacc acctgaaaac acctggcccc     1860
actctgtcta cccagggttg gtggggtgt tctgccc                                1897
```

```
      <400> 6473
cccggtccta agctttgatc ctttaaaacg ggccccccctt tttttttttt ttctggaagg       60
ttctcaggtc tttatttgct ctctcaaatt ccaggaattg acttatttaa ttaatccatc      120
aacctctcat agcaaatatt tgagaaaaca aatttatatt cagattctta ttttcagtag      180
ggaagtaaga agttgcagct cagtgcacgt aaagttgaga cagagatgga gacatccagc      240
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<212> DNA
<213> Homo sapiens

<220>
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<400> 6476

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<213> Homo sapiens

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5110

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5113

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<210> 6480
<211> 3893
<212> DNA
<213> Homo sapiens

<220>
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<222> (186)...(2801)
<223> similar to gi3153821 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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<223> similar to gi3098311 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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gcctacagcg agaagcgcta cgacgagatc gtcaaggaag tcagcgccta catcaagaag   720
atcggctaca acccggccac cgtgcccttt gtgcccatct ccggctggca cggcgacaac   780
atgctggagc cctcccccaa catgccgtgg ttcaagggct ggaaggtgga gcgtaaggag   840
ggcaacgcaa gcggcgtgtc cctgctggag gccctggaca ccatcctgcc ccccacgcgc   900
cccacggaca agcccctgcg cctgccgctg caggacggtg tacaagattt ggcggcattg   960
gcacggtgcc cgtgggccgg gtggagaccg gcatcctgcg gccgggcatg gtggtgacct   1020
ttgcgccagt gaacatcacc actgaggtga agtcagtgga gatgcaccac gaggctctga   1080
gcgaagctct gcccggcgac aacgtcggct tcaatgtgaa gaacgtgtcg gtgaaggaca   1140
tccggcgggg caacgtgtgt ggggacagca agtctgaccc gccgcaggag gctgctcagt   1200
tcacctccca ggtcatcatc ctgaaccacc cggggcagat tagcgccggc tactccccgg   1260
tcatcgactg ccacacagcc cacatcgcct gcaagtttgc ggagctgaag gagaagattg   1320
accggcgctc tggcaagaag ctggaggaca acccaagtc cccgaagtct ggagacgcgg   1380
ccatcgtgga gatggtgccg ggaaagccca tgtgtgtgga gagcttctcc cagtacccgc   1440
ctctcggccg cttcgccgtg cgcgacatga ggcagacggt ggccgtaggc gtcatcaaga   1500
acgtggaaaa gaagagcggc ggcgccggca aggtcaccaa gtcggcgcag aaggcgcaga   1560
aggcgggcaa gtgaagcgcg ggcgcccgcg gcgccgaccc tccccggcgg cgccgcgctc   1620
cgaaccccgg cccggccccc gcaccgcccc cgcggcgcgc gccgctccgg cgccccgcac   1680
ccccgccagg cgcatgtctg cacctccgct ttccagaggc cctcggtcag cgactggatg   1740
ctcgccatca aggtccagtg gaagttcttc aagaggaaag cgcccccgc cccaggcttc   1800
cgcgcccagc gctcgccacg ctcagtgccc gttttaccaa taaactgagc gaccccaaaa   1860

        <210> 6482
        <211> 964
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (231)...(741)
        <223> similar to gi309504 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

5116

<400> 6482
```
tttcgtggct atgcccggac agaggatcgc ctcgctggcc tactctctcc tcccgtacgg       60
cgccggaatc ccagctccac ttaccaggcc gcggctaccc cgccgtcccc cccgactccc      120
gccacccgc tctctcaggc tcttcaggat ccaagtccgt aggcccttta aggggtctag       180
ttgccgtttg cgaggccctg ggactttggt cccagacagc ggggatccgg atggcttccg      240
tgcggatccg agaggccaag gagggagact gtggagatat cctgaggctg attcgggagc      300
tagccgaatt cgaaaaactc tcggatcagg tgaagatcag tgaagaagcc ctgagagcag      360
atggctttgg agacaatcct ttctatcact gtttggtagc agagattctt ccagcgcccg      420
ggaagctact ggggccctgc gtggtgggct atgggatata ctatttcatc tacagtacat      480
ggaagggacg caccatttat ctggaggata tctatgtgat gcagaatatc ggggtcaagg      540
gattggttcc aaaataatca aaaggtggc tgaggtggcc ttggataagg gctgctccca       600
attccgcctg gccgtcctgg actggaacca gagggccatg gacttgtaca aggccctagg      660
agcccaagat ctgacggaag ctgagggctg gcacttcttc tgctttcaag gagaggcaac      720
gagaaagttg gcaggaaagt gacgccatcc ctaggaggat ctctgtcttg agtttctcct      780
tccccatcag ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctc      840
cctggaggaa ggagggttag gggtgcctat cctcaagtat tggaagagca gaattgaggg      900
agagaccttt cttccttgtt gagggtgaaa aataaataag aattacatgt cctgaaaaaa      960
aaaa                                                                  964
```


<210> 6483
<211> 1673
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)...(1390)
<223> similar to gi3820979 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6483
```
gccaggcatg gaacaccact cggtgccgga taggccgacc ccacctggac tccaccccccg      60
cagcatgcct cgaccgcggt ccgcaggtgg accgcctctc cccgccccc agggtgcgct       120
ggtcccgggc gcgcgctcat acctccgcat gccgggcgtg gtcgggtaag tccccggacg      180
tgacccatgc ccggggagct agtctccgcc cttcgctctt acggatcccc tcggagtacg      240
ccgcaccatg cagctcaggc tcttccggcg cctccttctc gccgctttgc tgctggtgat      300
cgtctggacc ctcttcgggc cttcgggggtt gggggaggag ctgctgagcc tctcactagc      360
ctccctgctc ccagcccccg cctcaccggg gccgcccctg gccctgcccc gcctcttgat      420
ccccaaccag gaagcttgca gtggtcccgg ggcccctccc ttcctgctca tcctggtgtg      480
cacggctccg gagaacctga accagagaaa cgccattcgg gcttcgtggg gcgggctgcg      540
cgaggcccgg gggctcaggg tacagacgct attcttgctg ggagagccga acgcacagca      600
ccccgtgtgg ggttcccagg ggagtgacct ggcctcggag tcagcagccc aggggggatat      660
cttgcaggcc gccttccagg actcctaccg caacctcacc ctaaagaccc tcagcgggct      720
gaactgggct gagaaacact gccccatggc ccgatacgtc ctcaagacgg acgatgatgt      780
gtatgtcaac gtccctgaac tggtatcaga gctggtcttg cgaggggggcc gttgggggca      840
atgggagaga agcacggaac cccagagaga ggctgagcag gaaggaggcc aggttttgca      900
cagcgaggaa gtgcctcttc tgtacttggg ccgggtgcac tggcgcgtga acccctctcg      960
gacaccgggg ggcaggcacc gcgtatcaga ggagcagtgg cctcacacct ggggcccctt     1020
tccaccctat gcctcaggca cggggtatgt gctgtcagcg tctgctgtgc agctcattct     1080
caaggtggcc agccgggcac cccttctccc attagaggat gtctttgtgg gggtaagtgc     1140
```
```
                                    5117
```

```
ccgacgagga ggcctcgccc caacacagtg tgtcaagctg gctggtgcca cccactaccc   1200
gctagaccgg tgctgctatg ggaaattcct gctgacgtcc cacaggctgg acccctggaa   1260
gatgcaggaa gcctggaagc tggtgggtgg ctctgacggg gaaaggactg cgcccttttg   1320
ctccctggtt cccagggaag tccctgggca tcctgcggtg tcgaagcaat agccctggct   1380
tcagagctga gagtgcctgg ggcccacagg aaaggcagga acaggacctt ctctctcccc   1440
aggcccaacg caggggccct cactggctgc agctgatctg ttttccttat accagatcct   1500
cagtctcact aaagacagcg atatgggaga cacccagggg gcctggcccg ccagcccaaa   1560
agatggtcat cgggaagaga aaaagaaaaa aatgctgcag ttgttctctc aagctagggc   1620
agaagagggg tgtcaagctc ctcaataaac ttgtctccac ttcaaaaaaa aaa          1673
```

<210> 6484
<211> 1312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1153)...(431)
<223> similar to gi2734092 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

        <400> 6484
```
gtgggttgtt cagccactga attacccagc tcgccacaat tggaaaccag catatgagcc     60
tgaaagaaac gcggtattgc caacacccta cccctaaggt catcatagca ttgaagacgg    120
gcttctatac atcaacgatc tagcatatgg taccatgtcc atacgcttaa cgacgcatgc    180
agctaatacc tcataaagat aagtgcgcgc taataagact ttttttttct tttcaaacag    240
taatgtttaa ttgagcacct catctccacc ctgactctca gggctgtgac agctgcaccc    300
acagcaacct gggcacggag gcaaggggggg cccacaagtg agggagggca cacaaagtca    360
gagggcagca aggaggctga ggggcagtgg gagtgccagg agcagggtcc tggatggggc    420
tggcagggcc agggcctgcc cgttgaggca gtcccagatc cagtgttggt aggaggagac    480
ctgtaggtag atgggtgggg gcctcgctct tctggcagcc tgcaccccag ctcaccaatc    540
ccaccaggta gcagcgtgcc ctccatggag cagaccaagg gctctccagt tagctcatag    600
cagaacttct ccctgtgggt gtcctccgca cacatcatct gggacttgat gatctgaacc    660
agagtgggga ttttggtgaa gttgtggtag aaattgtcac actctttgtt gttcaggatg    720
atgacttcct tctcctgaat ggtccggaac tgaggccaca tgccgtcagc cttggaaagt    780
ccccagcccg tcacagtgca gcgggaatgg tccttcaaca catagtccgt gccaggcagg    840
cagatgggcc gcacgtaatt gctgtacttg agttcctgct tgagcttgag gaggccgatg    900
tcgttggcct ggcccaccca ggaccagaac cgctgggccc ggtacctgct atgcatgatg    960
acctggagca ccgggacatc ggaggcggtc tgcgtcatct ggtcaatcca cggactcccc   1020
accctcactg agtagataac atcacgccag atcaggcagt gggccacagt cagcacccac   1080
tgggaggcaa tgatggtgcc ggcacagatg tgtgtgccat tggcccgcac gctgaccatc   1140
cagggccacc gccgagccac ggcttctggg tccctgaggg tggggtcctg ctcgtaggaa   1200
aagccacagg agcggtatgg gtcgactttg ccttcagaaa ctgggaattg ggtctccatg   1260
gtggtcgagg gcagaattcc tccgctctga ctaaggtatc gaagttttat ct           1312
```


        <210> 6485
```

                                  5118
```

<211> 1350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)...(1140)
<223> similar to gi4929595 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters


<400> 6485
```
tgttggttgg agcgagcatg tgggtctgca gtaccctgtg gcgggtgcga accccccgccc   60
ggcagtggcg ggggctgctc ccagcttctg gctgtcacgg acctgccgcc tcctcctact   120
ccgcatccgc cgagcctgcc cgggtccggg cgcttgtcta tgggcaccac ggggatccag   180
ccaaggtcgt cgaactcaag aacctggagc tagctgctgt gagaggatca gatgtccgtg   240
tgaagatgct ggcggcccct atcaatccat ctgacataaa tatgatccaa ggaaactacg   300
gactccttcc tgaactgcct gctgttggag ggaacgaagg tgttgcacag gtggtagcgg   360
tgggcagcaa tgtgaccggg ctgaagccag gagactgggt gattccagca aatgctggtt   420
taggaacctg gcggaccgag gctgtgttca gcgaggaagc actgatccaa gttccgagtg   480
acatccctct tcagagcgct gccaccctgg gtgtcaatcc ctgcacagcc tacaggatgt   540
tgatggactt cgagcaactg cagccagggg attctgtcat ccagaatgca tccaacagcg   600
gagtggggca agcggtcatc cagatcgccg cagccctggg cctaagaacc atcaatgtgg   660
tccgagacag acctgatatc cagaagctga gtgacagact gaagagtctg ggggctgagc   720
atgtcatcac agaagaggag ctaagaaggc ccgaaatgaa aaacttcttt aaggacatgc   780
cccagccacg gcttgctctc aactgtgttg gtgggaaaag ctccacagag ctgctgcggc   840
agttagcgcg tggaggaacc atggtaacct atgggggat ggccaagcag cccgtcgtag   900
cctctgtgag cctgctcatt tttaaggatc tcaaacttcg aggcttttgg ttgtcccagt   960
ggaagaagga tcacagtcca gaccagttca aggagctgat cctcacactg tgcgatctca   1020
tccgccgagg ccagctcaca gcccctgcct gctcccaggt cccgctgcag gactaccagt   1080
ctgccttgga agcctccatg aagcccttca tatcttcaaa gcagattctc accatgtgat   1140
catcccaaaa gagctggagt gacatgggag gggaggcgga tctgaggggc tgggtgcagg   1200
cccctcagtt ggggctccca ccttcccag actactgttc tcctcactgc ctcttcctat   1260
taggaggatg gtgaagccag ccacggtttt ccccagggcc agccttaagg tatctaataa   1320
agtctgaact ctcccttcca aaaaaaaaaa   1350
```


<210> 6486
<211> 4406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4087)...(2093)
<223> similar to gi439296 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters



<400> 6486

```
tttttttttt ttctccaaaa ttagttttta atacattcag gtaggttata caaagagttg      60
gtcccgaggc ctgggctgag gcctgggccc tgggaagtga cagcagccct gtgtagtgtt     120
ttcaaagatc aggcgtgggg acccacacct tggcctccag gcctaaggag gagtgttacg     180
tgcagtagca cccgtgggtg tgatcccaac caggactggg tctgcctggg tgctccacac     240
accaccaggg cctagccctg gctctgccca ttgactctcc cttaacttcc tctgggcctt     300
ggtgttctcc tctgtaaaat ggggtggaga gagtggcatt ttcactttct cgcacattac     360
tgagcccaca tcatgagcca gactgtgggc caagcacagg taagatgatg aagacagcaa     420
aacaaggtct tgagttggtc ccagcacgtc cattcttccc agacagctca tgactccatg     480
gtatgaggga tgggggtcat ctgggtgagg ctttttacct gtttttgtaa gagggaaaaa     540
agatccttgc atgatgaggc acagaaagga agtttggagc cagcattatc ttgtgatgtg     600
atagctgaga gaggacatca ctctggtcca acccccaatc tcaccccaca aataagggct     660
ctttttttccc ccagaggctc tgtataagct ctccacaagt ttcattctct tcctaagcct     720
cagtttcccc atctgtgcaa tggggaggtt ggattccata gtctcaaact ccaggctctg     780
ctcaatagag gaaaagggaa tgagagaatg caagagcaca gagagaacag gagaacccac     840
accagggtgg aaaggaaggg aggagggaaa caggcagaga aggaggagag cgcctgcagc     900
tgcctgcctg ggagagagga gagagcaggt gtgcacagca caggatgctt ccagaccctg     960
ctcgggctat gtggggccac ttcctgtcca cttaacggcc tgcagcccct gcagtggtaa    1020
agatcaggcc ctggagacag aaggatgaag gtttgaatct cacctatggc attagttagc    1080
tggggccctg gaaggagatt ttcagaactt cagtttcctc ttttataaaa cggggataaa    1140
atatagagat gtcacatagg ggcagacaca aggcttggat tcaaatccac atctgccaag    1200
ctgggtgcaa aacagaacca gatatctaag gttttagctc ctggctcagc agccaaggtg    1260
gggctgcgat ggagaagtgg ggctgggcag ggacggtgct taaagcagca ctggggtcag    1320
ggtatgcaac atgagagtgc caggaaggga gaaggcaagt ccagagcagg agacggaatg    1380
gtccagtgct gggctggacc ccttaaccag accctgctgg agccgccgtg gcccacctaa    1440
caacaccaga tccgagacac actcgtacag ctccaattct ctcttccggt cctaagcttt    1500
tcattttcag agagactgaa agtcattctc agaagacgtg acaaacagtc tgcttggaaa    1560
tgtctcagac aaatcctcct gggcttggcc ctccctcacc ctggcacagc cggggcagga    1620
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gtgtggcaca aaatacatgc tcagtgaaga tttgttgatc tgacaggtca acattattct    1860
cggctgtccc ctgaaaccgc ccaaacttct ggcttccaca gctggaccca aagtgcagcc    1920
cgggaagggg gtcacccact gatgcagcag gcggcagaga aaggtgtcct gggctgtaat    1980
ttggagacca gagttctggg atcccggatc actgtgtgac cttgagtcag tcctcactct    2040
tctctgtacc tcaggctccc ccactgacct agagtgtctc ccggcttctt taggctttat    2100
actgttggtt aaacttctgc cggcggacgc agcagcaggc ggccagcgtg gtgaggagga    2160
tggcagagac cagtatgaag gtgaggatga tgatgaggtt gatgttcttc agtcccccct    2220
tctcacagtc ctcgggacgc acgtggctca gggacacctc ctcctgggag ctgaagcggc    2280
agatcaggtc ctgggtggcg tccacgtcca cacggccctg gtgcagctgg ctgccagcc    2340
agccattgcc gcagcagctg agtggattcc cctgcaggta gaggcgccgg aggctggtct    2400
ccaggccacc catggcactg cctggcagga ggctgaagct gttgtttcgc aggtccagca    2460
cctccagtga cacagcctgt gtccaggcgg gaaggtggct caggcggttc tcggcaagat    2520
tgagccgctt gaggcagatg aagcagggca ggtccacctg caggaccatc agcccgttgc    2580
cctgcagtgc caggacctcc aaggaggcct ccaggcctcc caaggccccc gtggccacct    2640
ccagcccagg attggaagaa aggtccagct cagtcagtgg ggtgtggagg aaggcccctg    2700
ccctgagcag ctctatctca ttatccacca ggctcaggct gcggagggag gtgatgccgg    2760
agaaggccca cacagccgga agggcccagg ctcatctggg cccccacagg ggctgactcg    2820
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gtcccgcagg gcattgccct gtaggagcag cgtccgcaga gaccccagg gctctggcgc    2940
ccagttccag tgtctccagg gcattgtggc ttaagtcaag gagcatcagg cagggcaggg    3000
agcctaagcg ccgggcctca aaggtccgca agcagtttct gctgaggttc aggaagcaca    3060
gggaggtcag gtgctcaaga aagctgtcgg ggatgagctc aatctcattg tagctcaaat    3120
ccagattcaa gagctgggaa aggggcggc cgctggcatt cccgctgggg gctggagagg    3180
ggcagggctg accagccctc ggaaggtgcg tggatgccct tgctgtcctg gggtggccct    3240
gtggggagcc ggatgaggtt gttggacaag ttcaggtaga tgagtctcgg gagcgcggcc    3300
aggtcgggga aatggagcag tttgttctcc cgcaggtcaa gccaggtgag ctggaactca    3360
gcctggggct ggcgaggccg tctgaaaggc ctcgatgctg ttgcagctca ggtctagcac    3420
```

5120

```
ccgcagctgc tggaggctga agtcggagat gcaggtgagg gaattcctgg agaggttgag    3480
atgggtcagg cggggcaggc cctcgaaggc gccatcctcg atgtccatca gcacgttgct    3540
atgcaggtca agctgctcca gcgcaggcat gtcccggaag gtgtggcggg tgaggcgagt    3600
cagactgttc tccgccagtg agagggtatg caggctgggt gcctccccca gcagccgctc    3660
cagcaggccg ctgtacaggc tgttcccaga caggtccagg gaggtcacgc gtggcagggg    3720
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gtgctccagg tgggtcaggg cctggaaggc tcctggctgg aggaagctga tctcattggt    3840
gctcaggtcc aggtgacgaa gtgccgtgta gaagcccagg ggtgaggcca ggatactccg    3900
cagctggttc ccagatagat caagggtctc agtgtctggc gggagcaccg aggggacctg    3960
gaagcaggcc cagaacctgg cacgagacct tcttgtccac catcttacag ggcactttgt    4020
cttggtgttg tgcagccagg cctagggtca gcagggccag gagcagcagg atctggggtc    4080
tcatggctcc aaagtcacac aaggagaaaa tagcagggtc acgatcagaa tccagttcat    4140
ctgtctccaa agcaaatgtt cccactatac caaatcaagg tctccttccc taagccctgc    4200
caacgacccc tcacacgcag gagcagggca gactagctca cagtctggcc tctgaggtcc    4260
tctctccctc ctctcggcct cagctgactt actggcagag tggggtcctg ggagagctgc    4320
tgcggacgtt cctgtcaagc agtgaatcac taagggcaag cctcgatctg gagacatgtg    4380
catcccacgg gggaattaga ccttaa                                          4406
```

<210> 6487
<211> 1835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (106)...(743)
<223> similar to gi5911864 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
        <400> 6487
aagatggaaa ggactgagat gatgcccaca attaactccc agctggaatt taaaagtaag      60
ccttttcctt tagtctcctc ttcccggtgg ttggtaaaaa gaggtgaatt gacagcctat     120
gttgaagaca ctgtgctttt ctcaagaagg acatccaaac agcaagtcta cttctttctc     180
tttaacgatg tgctcattat caccaagaag aagagtgaag aaagttacaa cgtcaatgat     240
tattccttaa gagatcagct attggtggaa tcttgtgaca atgaagagct taattcttct     300
ccaggaaga acagctccac aatgctctat tcaagacaga gctctgccag tcacctcttt      360
actctgacag tccttagtaa ccacgcgaat gagaaagtgg agatgctact aggagctgag     420
acgcagagcg agcgagcccg ctggataact gccctgggac acagcagcgg gaagccgcct     480
gcagaccgaa cctcactgac ccaggtggaa atcgttaggt catttactgc taagcagcca     540
gatgaactct ccctgcaggt ggctgacgtc gtcctcatct tatcaacgtg tcagcgatgg     600
ctggtatgag ggggaacgga ctacgagatg gagaaagagg ctggtttcct atggaatgtg     660
ccaaggagat aacatgtcaa gctacaattg ataagaatgt ggagagaatg ggacgcttgc     720
taggactgga gaccaacgtg tagtctctca gatggtcttt tgttactgca agatttgcac     780
gacacttacc gggctggttg gttctgggct agtttattg ttaatttgt cacagcctat       840
ttaattaaaa gaacgaaaac acttgccttt aagcttgcca ggttgttccg ctctctcatg     900
agaagagctt gggatacagt gagtttgcac agcttcagtt tttacctaac cacacacttg     960
gcagacctcc tgaggtacac agaataggct ggagcagttc acttcaggga tcaggttcat    1020
ctctggttcc tcctagtttc accatgttct ggcaataaaa aacacatatt atatcctggt    1080
tttctctatc cttgcattac taaggtgact gtctctcttt atacatcctt gtatggttct    1140
cccagtatta gcaagattgt atatctgtaa agaatgtcca gttttgtaaa tatttccctg    1200
```

5121

```
cctttttttt tcttttttta catctgattt taatgcttcg ttaacttcaa aaggaactgg    1260
tagagttcaa aaggtgagct gttgtttttc taaacctctt cccaggaagg ggacattgac    1320
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gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa gtgattctcc tgcctcagcc    1620
tcccaagtag ctgggattgt aagagtatgc caccacgccc agctactttt tgtattttta    1680
gtagagacag ggtttcatca tgttggccag gatggtctct taactcctgc cctcaagtga    1740
tccaccagag aggagatcct cggcctcccc aagtgctggg attataggca tgagccaccg    1800
tgcccagcct actttctaat taattaaaaa aaaaa                                1835
```

<400> 6488
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tacagatttt aaagagctaa aaaattccca cagatgtcac ggagtccagg ggaataacag     120
cctggttgga ggggcgctct ccgcctcttc tgtatttttg gctctctctg agggtagtgg     180
ttttaccagc atgctttatc aaaaactaaa ctatcaggga gagtctacaa aaactcctgc     240
tagagtaagg tcagattcca gaccctgtcg cacctctgaa gaccttggtc cagttccttc     300
cagggtggct tcacgccttg ccatccctgc ctccctgcgg ctgcccctgt gcccaggccc     360
cgccaacgcc gtcaaggccc cctcggccac gccgcgtccc cgcccagcat ctcggatgcc     420
attccttccc ggtggcacct gcccaggctt tgccgaaatc gaaggcaaca agagggggag     480
gtgggcttaa gagtgcctgc ccggccgcca cctgtcttgg aggtggaggg aatggccgag     540
gggtggctcc cccagctccc cacctttgag catctctcag gctgggaaag ggcaaagggc     600
cacatgaagc cagcaggcac ttcagtgcca cgtccccaga gggacagtcc tcccacccag     660
gaacccctgg ctgcccagaa agcaccaccg gcaaggccgc ctccaccgca cccgtgagag     720
gactcggcag ctgtgaagga actgggagat tctgcagatg ggccgaggtc agggcttcca     780
ggctaggaag aagtcttcca gatgcctagc ttcaccagtc ccaggagaag gaaggaaggg     840
gcatgggcag aggcctggca ggggaggagg aagaggccaa ccctgtacac aggaccacag     900
gacagggtgg aggactgtcc caggagtccc tccacaacag gaggcctggt cccagtggcc     960
cctctctcta ggggttccct gctgccacca tgtccacaga ggagtcacag cttccatggc    1020
ccagccacaa gttctggctt aaagtcagaa caggagagag gccctcaact ccagtgaagc    1080
atgcagctcc tttttcaacc ccaacacctc tgacgaagca tgtttgttat atgaaggcaa    1140
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tctaatccag caaaactttg ctcatacctc aaaacggagc caagactcag actaatacac    1440
acaaatcaaa atggacaaaa gcaagtcttg actcgcttga caaacagaat agacacaaaa    1500
gaatgtacaa ccaatacaat tccagaatgt ccctgaaagg aaaaagcacc ctgtactgac    1560
```

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atgaaataaa tgttaacctt gagattacac taacaatgcc tttttttaag agatggtctc    1620
gctctgttgc ccaggctgga gtgcagtgtc atgatctcgg ctcactacaa ctcccacctc    1680
ccgggttcaa gagatcctca tgcctcagcc tcttgaatag ctgggattac atatgcatgc    1740
cattgcaccc cgataatttt tgtattttta gtagagatag ggtattgcca tgttagccag    1800
gcagtctgga actcctgggc tgaagtaatc cccctgcctt ggcctcccaa agtgctggga    1860
tcacaggtgt gagccactgc acccagccag gccaattctt tatcaggaat ttccaattcc    1920
catttccatt taacaagaga ctaactaact gaattaatcc tgccttctaa tgtttctgga    1980
acacatcctc taccttcgct gccggctcct ctgatgtccc aagggccttt tggtagcagt    2040
tagcatcatt tagcaaatac agagtggaaa gagtgtgccg gaggcccggg cttgggtgtg    2100
ctgtctgctc ctgtggcctg tcaggcaggt ccagggagac acaagggaag cctgagggac    2160
cctgactccc cttgaagaat ttctccatac agcaagacag tgtggcttta tcccagatcc    2220
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tctgactgag tctgggctga gggacctggc tctgcatttt gtaaaataga tactagcaga    2520
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gcgtggccac aggtcatcac ctgtcctgtg ccctggcga gcctgatccc tcacgccggg    2640
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tcaagaaagc caatgatctc gtgagttatc tcagcagtgt gagccatcag ggtgatgaca    2820
tcccaggcga tcgtgtggcc tccaggagcc cagagcagga agttgaggag aaggtgcctg    2880
atcagctgtt gtgcaggagc tctgaggtct gtgtctgtgc cctgtcctgc taccgtctgc    2940
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ttcacctgga ccatagtctg tgctctctgc tgcctcccat cacggggggcc gtagtagaag    3060
gccaagagcc acagcagggc cgtggggggt tcggctgccg acatcagtaa ttgctctgcc    3120
accatctcag cccatcctcc gaagtgaatg aacaggaacc agctctcaaa gggacctccg    3180
caggacccat gagtctggtc ttcaactgct tctctgagca gttcagaaat atgcttcagt    3240
gtctggagcc agtgtccccg agggatatct tgaggggtct tgcagcagca ccatggcaaa    3300
gagatggaga agtgtaagga aagtagggtc ttgagtgcaa accgcagctg cttgcttgct    3360
ttctccagag cttctacaaa gcactgcgtt aaacacctga atagtggcta tgatttccag    3420
ggccccatcg gtttcccagg agtgcacacc tgaacatctc atcaacaacc cggaatatgg    3480
cagggtggca ggctgcttga ggcagcgatg aatcttttat aaagcattcg atccttctca    3540
gacaatttct ctcactggag attagctttt caaaaagatg cagcattgct ttttcaaggc    3600
tgggaaggtg ccgaagccag aggcagacta cagctgacat ggggagagaa atcttcttca    3660
gcaaaatggc ctcgtttaca gcctcaaaga actctggctg gaggatttcc tgaggttcac    3720
gtccatgaca gatgaggaga gcctcccca gggggtcaac atctgtcagg gtaataagtg    3780
ggacacaaac tcgtgacagg gacgccactc gctcgggagc cattcgcctt tgagtgttaa    3840
atccattaag atgattctct ctgagttcag acgctaatga taaaaccata tttttaagca    3900
acccaggata gtaatctata ggtgcatacc caagaccttg agtgaaaga gcaacttctt    3960
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ttgattgtcc agaattctgt ggttctttgt taattagaca acataagcac catattagaa    4080
tttttggct ttcatcatat gctaaaataa aaggattcca acaagctttt gccaacagtt    4140
gaccaattgt ggggaatctt tcaatgactg tattagaatc catctctttc aaggcttcat    4200
acatcttcct taggaactcc tggaactgag ccacgtgaag acaggtgtct tgctgggttt    4260
ccaaagtgga agcctgatcc catacagaaa gcttctgcat ccaaaactga taatcacaag    4320
aaagatctac tgaatcttga gccatcttgg aaaaagcgaa aaggtgatgt cccttcacag    4380
cagcctgtcc agcactgaag gaaatggtcg gcacacatta aatcgggtgg tcctcgcggg    4440
agctgcttca gcagtttggg cagtggcgga aaggaagcca ccgcccggga tctgtggctt    4500
gaaaatttgg ctttgcctcg tattggcttt ttgagttttt ttggaatttt cccgcggtcg    4560
cccggcagtg gagccgcgcg cgcgcacacg tgtcagcagt                          4600
```

<210> 6489

5123

<211> 1961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1231)...(1961)
<223> similar to gi5360105 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6489
ttttaaatc acaaaaatag acataatatt tgaaacctgt aaataaaaat attttacaat   60
tctttgaaat taaatatttc agactgcttt gccagcaaca tgctcaattc ccgatcatcg   120
ctcaaagtgg taagtttcta aaatttagca ctgtgggttt taaagaaagg taaacatttg   180
tgtaacataa ggaatagtct aattttctag cctcgttgaa ttaaaataca aatgtttgag   240
ttaaaatttt acacatctag aaaattgaca acttctttgt gtactatgtg atatgactga   300
ctaatttttt cttctttatg aacaagacct attctctttg aaccattccc tggtatcttt   360
cattctccct acgctcacag aaccaaacta agacatggga aaaagccttg acttttggga   420
ctgcttctct tccataagaa ttttcagtag ataaaatttt aaaagtgctg caccttccct   480
gagtgaaaat tccctaagga tgcatggtta gcatttcagt tctaattaag gcagactgga   540
tcctggctaa ctggagtcat ggggtatact ttcattcatg agtggaacag cagtgtctta   600
gcagcactac atctgcaatg ttcattgtga agtggagtca ggacctcgtt ggaagacttc   660
gttctgcgtc atgccaactg catttatgg tgataacatt ctccaaatag cacctctaca   720
atcattttc agtcgttacc cttttaactc agcaggaaag gctattacag atacttcttt   780
aaatcagtgt ttattgacag ggaaaagcac cagcaataca cacttaacca aatccttgca   840
aatgtcatct attaaatatc ttcatcctta ttagtctgtt ttactttgaa tatcttctga   900
gtgaaattga gtgcattccc atatctttc accaattata tttgttttcc tatgacccaa   960
tttgttcatt tttctattga atgaaccctc tccccaaaga gttccgcatg tgccaatttt   1020
tctactcaat tatttacctg tgttgcatta aacttataat atctttttta aaaattaacc   1080
ctttatcata agtgctgcaa acacttagtt gaagtttgcc atatcttttg actttgtaaa   1140
aacttttggc atatgagttg tatatttcat gtagtcaaac agtaatcttt tcctttatgg   1200
attccaattt ttaaatggtt tatattttta gctaaatttt caggagtgaa aagaaaaaga   1260
ggaaggaaga aacccctctc aggcaatcat gtacagccac ccgaaacaat gaaatgtaat   1320
acattcataa gacaagtgaa agaagagcat ggcagacaca cagatgcaac tgtgaaagtt   1380
cctttcta agaaatgcaa ggaagcagga cttcttaatt acttacttga agaaatatta   1440
gacaaagttc attcaattcc agaaaaactc atggatgaga ctacttcaga atcagactat   1500
gaagaaatcg ggagtgcact ttttgactgt agattgttcg aagacacatt tgtaaatttt   1560
caagcaggta tatgagttat ataacatctg agcagcatag ttgagaaata tcatgatatt   1620
gaaacaatat actatacagg tgataaaaat attttagaag aatgttcatt gttttcttaa   1680
atgagaaaag ccaattacaa aaacagtatg accccgccca ccccccaca cacacaggaa   1740
aaaaatattg aggtacatgt gcacagacaa aagctgcacc tggtggagac agtagttggt   1800
tgtaggtagt tggaatatag ggatttttgg ctgttctttt actgctatat tttccagatt   1860
ttctgtatac acacaaatac ttttataatg agaaaaactc attaaaaagt agagacaaca   1920
aaaatttgat caaaatttga gcatattttg ccttggggggg g   1961

<210> 6490
<211> 2928
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (232)...(2773)
<223> similar to gi4454791 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 6490
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ttacgtgcaa ctcagtaaca gcccgagagc cgggaaataa aaataacccc tcagagcgat    60
ggatttcggg gccgcccggc ggccgaggcg cccgccgaag gccctgctgt aaaagagagg   120
aggttcagat gagcccctgc tgacttgaga gagacagaga gaccacgccg attgctgaga   180
ggaactggaa gaagaaaaat tcccagactc agtgggaaga gctccctcac catgagtagc   240
gctatgttgg tgacttgcct cccggacccc agcagcagct tccgtgagga tgccccgcgg   300
cccccagtgc cagggaaga aggggagacc ccaccgtgtc agccaggggt gggcaagggc   360
caggtcacca aacccatgtc tgtctcttcc aacaccaggc ggaacgaaga tgggttgggg   420
gagccggagg ggcgggcatc tccggattcc cctctgaccc ggtggaccaa gtccttacac   480
tccttattgg gcgatcaaga cggtgcttac ctgttccgaa ctttcctgga gagggagaaa   540
tgcgtggata ccttagactt ctggtttgcc tgcaatggat tcaggcagat gaacctgaag   600
gataccaaaa ctttacgagt agccaaagcg atctacaaaa ggtacattga gaacaacagc   660
attgtctcca agcagctgaa gcctgccacc aagacctaca taagagatgg catcaagaag   720
cagcagattg attccatcat gtttgaccag gcgcagaccg agatccagtc ggtgatggag   780
gaaaatgcct accagatgtt tttgacttct gatatatacc tcgaatatgt gaggagtggg   840
ggagaaaaca cagcttacat gagtaatggg ggactcggga gcctaaaggt cgtgtgtggc   900
tatctcccca ccttgaatga agaagaggag tggacttgtg ccgacttcaa gtgcaaactt   960
tcgccaaccg tggttggctt gtccagcaaa actctgaggg ccacggcgag tgtgaggtcc  1020
acggaaactg ttgacagtgg atacaggtcc ttcaagagga gcgatcctgt taatccttat  1080
cacataggtt ctggctatgt ctttgcacca gccaccagcg ccaacgacag tgagatatcc  1140
agtgatgcgc tgacggatga ttccatgtcc atgacggaca gcagtgtaga tggaattcct  1200
ccttatcgtg tgggcagtaa gaaacagctc cagagagaaa tgcatcgcag tgtgaaggcc  1260
aatggccaag tgtctctacc tcatttcccg agaacccacc gcctgcccaa ggagatgacc  1320
cccgtggaac ccgccacctt tgcagctgag ctgatctcga ggctggaaaa gctgaagctg  1380
gagttggaga gccgccacag cctggaggaa gcgcctgcag caagatccga agaggatgaa  1440
gagagagagg gctccgagct cacactcaaa ttcgcgggag ggggcgccca cgcaggcacc  1500
ccctcttccc ttactgccct ccggcagctt acgaggggaag gacccgcagg acgatactgg  1560
acgatcacct gtccagggtc ctcaagaccc ctggctgcca gtctccgggc gtaggccgct  1620
atagccctcg ctcccgctcc ccggaccacc accaccacca ccattcgcag tacttactcc  1680
ctcgtcccgc ccggtggcaa gctgcctccc gcggccgcct cgccgggcgc ctgccccctc  1740
ctcgggggca aaggctttgt gaccaagcag acgacgaagc atgtccacca ccactacatc  1800
caccaccatg ccgtcccccaa gaccaaggag gagatcgagg cggaggccac gcagcgggtg  1860
cactgcttct gccctggggg cagcgagtat tactgctact cgaaatgcaa aagccactcc  1920
aaggctccgg aaaccatgcc cagcgagcag tttggcggca gcagaggcag taccttgccc  1980
aaacgcaatg ggaaaggcac ggagccgggc ctggccctgc ccgccaggga aggaggggcc  2040
cccggcggag ctggggccct gcagcttccc cgggaggaag gagacaggtc gcaggatgtc  2100
tggcagtgga tgctggagag tgagcggcag agcaagccca agccccatag tgcccaaagc  2160
acaaaaaagg cctacccctt ggagtctgcc cgctcgtctc caggcgaacg agccagccgg  2220
caccatctgt ggggggggcaa cagcgggcac ccccgcacca cccccgtgc ccacctgttc  2280
acccaggacc ctgcgatgcc tcccctgacc ccacccaaca cgctggctca gctggaggag  2340
gcctgtcgca ggctagctga ggtgtcgaag ccccaaagc agcggtgctg tgtggccagt  2400
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ccaagcctgg ctccagaaga tcacaaagag ccaaagaaac tggcaggtgt ccacgcgctc  2520
caggccagtg agttggttgt cacttacttt ttctgtgggg aagaaattcc ataccggagg  2580
atgctgaagg ctcaaagctt gaccctgggc cactttaaag agcagctcag caaaaaggga  2640
aattataggt attacttcaa aaaagcaagc gatgagtttg cctgtggagc ggtgtttgag  2700
gagatctggg aggatgagac ggtgctcccg atgtatgaag gccggattct gggcaaagtg  2760
gagcggatcg attgagccct ggggtctggc tttggtgaac tgttggagcc cgaagctctt  2820
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5125

gtgaactgtc ttggctgtga gcaactgcga caaaacattt tgaaggaaaa ttaaaccaat   2880
gaagaagaca aagtctaagg aagaatcggc cagtgggcct tcgggagg   2928

<210> 6491
<211> 1556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (647)...(843)
<223> similar to gi4104681 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6491
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gggctcggcg gggccgtgtc tggtctgcaa ggcgcgcggg ctcgtggggg gttggctggg   120
gagcccacgc tgcctggcga ctcgggccac cgaatgtgag accgagtccc tttatgtcac   180
cagcgcacac gctgatttga accctgcttc gacgtgtgtg tcatggctta aaaatagctg   240
ctaatctgtc aacctgtctt gggcagaaac agcggcggcg acagcagcag gagcgtcatg   300
gccgtggcgc tgtctgcgcc ggcgatccgc ctttcggact gaggcccagc gcagcgcttg   360
caaagagcag ctacctggca actgaaccca tcatcaccac agccactcct gcagctgcca   420
cggtttctgc cacctctaag atgtgccctg gtaactggct ttgggcttct atgactttta   480
tggcccgctt ctcccggagt agctcaaggt ctcctgttcg aactcgaggg accctggagg   540
agatgccaac cgttcaacat cctttcctca atgtcttcga gttggagcgg ctcctctaca   600
caggcaagac agcctgtaac catgccgacg aggtctggcc aggcctctat ctcggagacc   660
aggaagatcc tggtgcattg tgctgtgggc gtgagccgat ccgccaccct ggtactggcc   720
tacctcatgc tgtaccacca ccttaccctc gtggaggcca tcaagaaagt caaagaccac   780
cgaggcatca tccccaaccg gggcttcctg aggcagctcc tggccctgga ccgcaggctg   840
cggcagggtc tggaagcatg aggggagggg gagagaggtc aggccaggcc cgtgggtagg   900
tccctggctc ccagctggag ataggaggcc caggtggcag gtagcaggag gcccagatca   960
cccatcctcc cctggggtca ggagaggccg agccccaggc cactgtcact ctttgtggga   1020
ggggacgggg agtgaggttg ggcagtgtgg tggatgggca cccaggaagg gttgaccagg   1080
gaaggaggca gctaggctgt aaatggaaga tggtcctggg attcgaacac cgctgggatc   1140
tggccagggt gctccctggg attcacagtc ccttcccctc tttgtgccca agtgtttccc   1200
tctctccctc accaaaacaa aagggccatc tctgccctgc acttgtcag aaagtcaggg   1260
atacggcaag catgaatgca atggtgtaga gttgtgtgaa acccctagca tagagacaga   1320
cagcgaagag atggtgtgaa aagcttgcag aaccagacag agaaccccac agactttcca   1380
ctccaagcac aggaggaggt agctagcgtg tgagggttgg cactaggccc acggctgctg   1440
cttgggccaa aaacatacag aggtgcatgg ctggcagtct tgaaattgtc actcgcttac   1500
tggatccaag cgtctcgagg ataaataaag atcatgaaaa agaaaaaaaa aaaaaa   1556

<210> 6492
<211> 3151
<212> DNA
<213> Homo sapiens

5126

<220>
<221> misc_feature
<222> (16)...(1809)
<223> similar to gi1575609 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6492
ggtccccaag cggagcggga ggccggaccg gggagccgag cggcggcgtc ggcggcgtcg   60
gcggcggcgg cgacggcggc ggggcggta atggcggagc tggtgcaggg gcagagcgct   120
cctgtgggga tgaaggccga gggcttcgtg gatgccctgc accgggtccg gcagattgct   180
gctaaaattg attcaattcc tcacttgaat aattccacac cttctagtgg acccctcagt   240
atatggatac ggagtacaaa aacggccctt ggatgatgga gtaggtaacc agttaggggc   300
cttggtacat caaaggacgg taataacgga agaattcaaa gtgcctgaca aaatggttgg   360
atttattatc ggcaggggag gtgagcagat ttcacggatt caagcagaat ctggttgcaa   420
aattcagatt gcttcagaga gttctgggat tccagagagg ccctgtgtac ttaccggaac   480
cccagaaagt attgaacaag ccaaacggct cctgggacag attgtggacc gctgtcgaaa   540
tggacctggc tttcataatg acatagacag caacagcaca atccaggaga ttctcattcc   600
cgcatctaaa gtgggtctgg tcatcggcag aggaggggaa acaatcaagc agttgcagga   660
gcggacaggg gtgaagatgg tcatgatcca ggatggccca ttgcccacgg gagcagacaa   720
gcctcttcgt atcactggag atgcatttaa agtacagcaa gcaagagaaa tggtactaga   780
gattatccga gaaaaagacc aagctgactt tcggggtgta cgcggcgatt tcaactctcg   840
aatgggagga ggcagtatag aggtatctgt gcctaggttt gctgtgggga ttgtaatagg   900
aagaaacggg gaaatgatca aaaagatcca gaatgatgct ggtgtgagga ttcagtttaa   960
accagatgat gggattagtc cagaaagagc tgcccaggtc atgggccctc cggatcggtg   1020
tcagcatgca gcgcatatca tcagcgagct gattcttaca gcccaggaaa gagacggctt   1080
tggaggcctg gcagcagcca gaggaagagg tcgtggccgt ggcgactgga gcgtgggagc   1140
ccctggtggc gtccaggaga taacatacac ggtgccagcc gataagtgtg gcctcgtcat   1200
aggcaaaggg ggtgagaaca tcaaaagcat caaccagcag tcaggggcgc acgtggagct   1260
tcagaggaac ccccctccca acagcgaccc caacctgcgg agattcacca tcaggggggt   1320
tccccagcag atcgaggtgg ccaggcagct catagatgag aaagttggcg ggaccaatct   1380
cggagcacct ggagccttcg gacagagtcc attcagccag ccacctgccc cacctcatca   1440
aaataccttt cctccaagga gctccgggtg cttcccaaac atggctgcca aggtgaatgg   1500
gaacccccac agcacccctg tgagtggtcc tccggccttt ctgacccagg gctggggcag   1560
cacctaccag gcgtggcagc agcccacaca gcaggtccca agccagcaga gccagccgca   1620
gagcagccag cccaactaca gcaaggcctg ggaagactat tacaaaaaac agagtcacgc   1680
cgccagcgct gctcctcagg ccagctcccc accggactac acaatggcct gggcagaata   1740
ttacagacag caggtcgctt tctacggaca gacgttaggg caggcgcagg cccacagcca   1800
ggagcagtag gacagcgtcc tcgtggccaa ctctcccctc aaaatcattg tcaaagaaaa   1860
cctatttgta acagaggttt ttacatttgc aaaccttttg atgaagaact gttgttttgt   1920
tctgtgaaac actatattta gattaacgga atttttctaa aaatcaggaa aattagttac   1980
taaaaattgc tgatcatttt tgtttcatta tttttggtat ttcaaatgta taagctctgg   2040
gattcttttt ggagcaatac ctacaaagtc aggcaccaga atgtgcctca gagctgtgac   2100
atttcaacat gatggttttg gtttggtttg gttttgtgtc cttttattt gcagtttttt   2160
ctgttgcaac agaaagtggc ttggaagtct taggtggtat gtaacaaatt cttttaaaa   2220
attttaaagc agtatttaag tattcttaaa tgtgtaaatt catttaatgt tttacttcta   2280
atttcttgta tcttggctgt ctggttttat tgcattttta aaaaaaactg aactattatg   2340
tattgtaatg aatgatgtga attctgaact gagacagata attgtattgc tgtccaacag   2400
gggttgggag gggcattttg tagggtttgt ataatttcta gagttcgaaa ggggtaatat   2460
aaaaatgtgc tcgtgtgttt agcctacgtt tttctcatgc ctccattacc agttgcaatt   2520
gtgtatctaa gacctccaag cttgtttta aaacaaaaca aaaacctttt ctctattatc   2580
tcagaaatat aaatactgtt atttttaata ttaagaaatt caatataact tttaacacac   2640
actgtggaac attaaaccgt ataaaaatgt agttataact attttattt ccaaggtgtt   2700
gtttgcttt ttcttttaaa tattttctta atatttgtc agattaacta gatgaataaa   2760

```
taaatctagt attaaccgca ttatgaatta aataattttg atttaatgaa agggataata    2820
tgatttccag tgtttactgt agtgtatctt gtacagataa catgtatttt taaaggaaaa    2880
aaaacggaat tgaagctatt ttttcttgca tttctaattg acctgaggga cattccgttt    2940
gaaatgtact gaagttacag tttctggttt tttctcctta ttttttcttat aatgcttgaa    3000
atgtctaact attaaaaaag acaattggaa aatgttatgc atggggtttt taagaaaaca    3060
aagtgttctt tttatttgac tgacaattca ttttacactc tatataataa aatctccaca    3120
aggcatcttg tgggcaaagt caaaaaaaaa a                                     3151
```

<210> 6493
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1939)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (355)...(1443)
<223> similar to gi1710292 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6493
```
cgagcccgga gacttgcctt gcaatgccat gtttgtgtat gtgctctaac tcccggagag     60
caatcaggga gacggctccc cggccagact tggctgatgt tttcttgttt ctgtttcagc    120
cttcaggata attccttcag cagcaccact gtaacagagt gtgacgaaga tccagtctct    180
ctacatgaag accagactga ttgctccagt ctcagagatg aaaacaataa agagaactac    240
cccgacgcag gggctctggt agaagagcac gcgccgccct cttgggagcc gcagcagcag    300
aatgtagagg cgaccgtgct ggtggacagc gtattgcgac ccagcatggg caacttcaag    360
tccaggaagc ccaagtccat cttcaaagcg gagagcggga ggagccacgg agaaagtcag    420
gagacagagc atgtggtatc cagccagtca gagtgtcagg tgagagcagg aacaccagct    480
catgagagtc cacaaaacaa tgccttcaag tgccaagaaa ccagtgcgac ttccaaccaa    540
gaatagacca gaggactgcc acttcgccaa aggatgcttt tgaaactcgg ccaggactta    600
aatgaggaag aagctgctca ggtgcatgga gtcaaggacc cggcgccagc atcaacccag    660
agcgtgcttg ccgaatggga cagattctgc agacccctca ccagtccaca aagatgggca    720
gaatgaggcc gacagtgcac cagaagacct ccactctgtg gggaccagca ggctgcttct    780
attcacatca ctgatggtga taaccccact gctgttcgcc acggttgttc cctctttcag    840
gccaaagcca gagattcaac ttagaccccg agtcagcccc atctccaccc agcactcagc    900
agtttatgat gccgcggagt tcttcacgct gcagctgtgg agatggcaag gagccacaga    960
ccatcaccca gctcaccaag cacatccaga gcctcaagcg gaaaattcgg aaatttgaag   1020
aaaaatttga acaagaaaag aaataccggc cttcacatgg tgacaagact tctaatcctg   1080
aagtcctgaa atggatgaat gatttggcta aaggtcgtaa acagctcaaa gaactaaagc   1140
taaagctgtc agaagaacaa gggagtgctc ccaaaggtcc acctagaaac ctgttgtgtg   1200
agcaacccac agtccccaga gaaagtggga aaccggaagc tgcgggcccg gagccaagct   1260
cctctggaga agagactcca gatgctgcct tgacatgcct gaaggagaga agagagcaac   1320
ttcctcccca ggaggattct aaggtaacta agcaagacaa gaacctcata aagccgcttt   1380
atgaccgata cagaattatc aagcaaatct tgtcaacacc ttcccttatt ccaacaattc   1440
aggaggaaga ggactctgat gaagaccgtc cacagggaag ccaacaacct tctttggcag   1500
```

5128

```
atccagcatc tcaccttcct gttggtgacc acctcaccta ctctaatgag actgagcctg    1560
ttagggccct tttaccagat gaaaagaaag aagtaaaacc accagctctc tccatgtcta    1620
atttacatga ggctaccatg cctgtacttc ttgaccatct ccgagaaact agggctgaca    1680
agaagagact gcggaaagcc ttaagagaat ttgaagaaca gttttttaaa caaacaggaa    1740
gaagtccaca aaaggaagat aggataccaa tggcagatga gtattatgaa tataagcaca    1800
taaaggccaa actgagactt ttggcccccc cagccggatc atatttcccc cntgnnnnnn    1860
nnnnnnnnnc ggnaaatgtt atgatcactt tcacccatga tataaagtaa agtttatttt    1920
cctctgcaaa aaaaaaaa                                                  1938
```

<210> 6494
<211> 4192
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (217)...(2605)
<223> similar to gi31478 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6494
```
gcggggaagc agcagcggcc aggatgaatc ccaggtgctc tggagctgga tggtgaaggt    .60
cggcactctt caccctcccg agccctgccc gtctcggccc catgccccca ccagtcagcc    120
ccgggccaca ggcagtgagc aggcacctgg gagccgaggc cctatgacca ggccaaggag    180
acgggcgctc cagggtccca gccacctgtc cccccatgg  agctgaggcc ctggttgcta    240
tgggtggtag cagcaacagg aaccttggtc ctgctagcag ctgatgctca gggccagaag    300
gtcttcacca acacgtgggc tgtgcgcatc cctggaggcc cagcggtggc caacagtgtg    360
gcacggaagc atgggttcct caacctgggc cagatcttcg gggactatta ccacttctgg    420
catcgaggag tgacgaagcg gtccctgtcg cctcaccgcc cgcggcacag ccggctgcag    480
agggagcctc aagtacagtg gctggaacag caggtggcaa agcgacggac taaacgggac    540
gtgtaccagg agcccacaga ccccaagttt cctcagcagt ggtaccttgt ctggtgtcac    600
tcagccggga cctgatggtg aaggcggcct gggcgcaggg ctacacaggg cacggcattg    660
tggtctccat tctggacgat ggcatcgaga agaaccaccc ggacttggca ggcaattatg    720
atcctggggc cagttttgat gtcaatgacc aggaccctga ccccagcct  cggtacacac    780
agatgaatga caacaggcac ggcacacggt gtgcggggga agtggctgcg gtggccaaca    840
acggtgtctg tggtgtaggt gtggcctaca cgcccgcat  tggaggggtg cgcatgctgg    900
atggcgaggt gacagatgca gtggaggcac gctcgctggg cctgaacccc aaccacatcc    960
acatctacag tgccagctgg ggccccgagg atgacggcaa gacagtggat gggccagccc    1020
gcctcgccga ggaggccttc ttccgtgggg ttagccaggg ccgaggggg  ctgggctcca    1080
tctttgtctg ggcctcgggg aacgggggcc gggaacatga cagctgcaac tgcgacggct    1140
acaccaacag tatctacacg ctgtccatca gcagcgccac gcagtttggc aacgtgccgt    1200
ggtacagcga ggcctgctcg tccacactgg ccacgaccta cagcagtggc aaccagaatg    1260
agaagcagat cgtgacgact gacttgcggc agaagtgcac ggagtctcac acgggcacct    1320
cagcctctgc ccccttagca gccggcatca ttgctctcac cctggaggcc aataagaacc    1380
tcacatggcg ggacatgcaa cacctggtgg tacagacctc gaagccagcc cacctcaatg    1440
ccaacgactg ggccaccaat ggtgtgggcc ggaaagtgag ccactcatat ggctacgggc    1500
ttttggacgc aggcgccatg gtggccctgg cccagaattg gaccacagtg gcccccagc    1560
ggaagtgcat catcgacatc ctcaccgagc ccaaagacat cgggaaacgg ctcgaggtgc    1620
ggaagaccgt gaccgcgtgc ctgggcgagc ccaaccacat cactcggctg gagcacgctc    1680
aggcgcggct caccctgtcc tataatcgcc gtggcgacct ggccatccac ctggtcagcc    1740
```

5129

```
ccatgggcac ccgctccacc ctgctggcag ccaggccaca tgactactcc gcagatgggt   1800
ttaatgactg ggccttcatg acaactcatt cctgggatga ggatccctct ggcgagtggg   1860
tcctagagat tgaaaacacc agcgaagcca acaactatgg gacgctgacc aagttcaccc   1920
tcgtactcta tggcaccgcc cctgaggggc tgcccgtacc tccagaaagc agtggctgca   1980
agaccctcac gtccagtcag gcctgtgtgg tgtgcgagga aggcttctcc ctgcaccaga   2040
agagctgtgt ccagcactgc cctccaggct tcgcccccca agtcctcgat acgcactata   2100
gcaccgagaa tgacgtggag accatccggg ccagcgtctg cgcccctgc cacgcctcat    2160
gtgccacatg ccaggggccg gccctgacag actgcctcag ctgccccagc cacgcctcct   2220
tggaccctgt ggagcagact tgctcccggc aaagccagag cagccgagag tccccgccac   2280
agcagcagcc acctcggctg cccccggagg tggaggcggg gcaacggctg cgggcagggc   2340
tgctgccctc acacctgcct gaggtggtgg ccggcctcag ctgcgccttc atcgtgctgg   2400
tcttcgtcac tgtcttcctg gtcctgcagc tgcgctctgg ctttagtttt cggggggtga   2460
aggtgtacac catggaccgt ggcctcatct cctacaaggg gctgcccect gaagcctggc   2520
aggaggagtg cccgtctgac tcagaagagg acgagggccg gggcgagagg accgcctta    2580
tcaaagacca gagcgccctc tgatgagccc actgcccacc ccctcaagcc aatcccctcc   2640
ttgggcactt tttaattcac caaagtattt ttttatcttg ggactgggtt tggaccccag   2700
ctgggaggca agaggggtgg agactgtttc ccatcctacc ctcgggccca cctggccacc   2760
tgaggtgggc ccaggaccag ctggggcgtg gggaggggcg tacccca ccc tcagcacccc   2820
ttccatgtgg agaaaggagt gaaacctta gggcagcttg ccccggcccc ggccccagcc    2880
agagttcctg cggagtgaag aggggcagcc cttgcttgtt gggattcctg acccaggccg   2940
cagctcttgc ccttccctgt ccctctaaag caataatggt cccatccagg cagtcggggg   3000
ctggcctagg agatatctga gggaggaggc cacctctcca agggcttctg caccctccac   3060
cctgtccccc agctctggtg agtcttggcg gcagcagcca tcataggaag ggaccaaggc   3120
aaggcaggtg cctccaggtg tgcacgtggc atgtggcctg tggcctgtgt cccatgaccc   3180
acccctgtgc tccgtgcctc caccaccact ggccaccagg ctggcgcagc caaggccgaa   3240
gctctggctg aaccctgtgc tggtgtcctg accaccctcc cctctcttgc acccgcctct   3300
cccgtcaggg cccaagtccc tgttttctga gcccgggctg cctgggctgt tggcactcac   3360
agacctggag cccctgggtg ggtggtgggg aggggcgctg gcccagccgg cctctctggc   3420
ctcccacccg atgctgcttt cccctgtggg gatctcaggg gctgtttgag gatatatttt   3480
cactttgtga ttatttcact ttagatgctg atgatttgtt tttgtatttt taatgggggt   3540
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tggccctgag gtgtgggggc tgcagcatgt tgctgaggag tgaggaatag ttgagcccca   3660
agtcctgaag aggcgggcca gccaggcggg ctcaaggaaa gggggtccca gtgggagggg   3720
caggctgaca tctgtgtttc aagtggggct cgccatgccg ggggttcata ggtcactggc   3780
tctccaagtg ccagaggtgg gcaggtggtg gcactgagcc cccccaacac tgtgccctgg   3840
tggagaaagc actgacctgt catgcccccc tcaaacctcc tcttctgacg tgccttttgc   3900
accectccca ttaggacaat cagtccctc ccatctggga gtccccttt cttttctacc     3960
ctagccattc ctggtaccca gccatctgcc cagggtgcc ccctcctctc ccatcccct     4020
gccctcgtgg ccagcccggc tggttttgta agatgctggg ttggtgcaca gtgatttttt   4080
tcttgtaatt taaacaggcc cagcattgct ggttctattt aatggacatg agataatgtt   4140
agaggtttta aagtgattaa acgtgcagac tatgcaaacc agaaaaaaaa aa            4192
```

<210> 6495
<211> 2026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (87)...(688)
<223> similar to gi5410276 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5130

<400> 6495
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cgacgatttc gtgttgccgc cgggctgaga gaagagcttg cggggtttgc ggttgatggc      60
cccgactgaa gggctggagg cggtgtatgc cgctgttctt gctgtcgctc ccgacacctc     120
cgtccgcttc tggtcatgag aggagacaga ggcctgaagc aaagacatct gggtcagaga     180
aaaagtattt aagggccatg caagccaatc gtagccaact gcacagtcct ccaggaactg     240
gaagcagtga ggatgcctca acccctcagt gtgtccacac aagattgaca ggagagggtt     300
cttgccctca ttctggagat gttcatatcc agataaactc catacctaaa gaatgtgcag     360
aaaatgcaag ctccagaaat ataaggtcag gtgtccatag ctgtgcccat ggatgtgtac     420
acagtcgctt acggggtcac tcccacagtg aagcaaggct gactgatgat actgccgcag     480
aatctggaga tcatggtagt agctccttct cagaattccg ctatctcttc aagtggctgc     540
aaaaaagtct tccatatatt ttgattctga gcgtcaaact tgttatgcag catataacag     600
gaatttctct tggaattggg ctgctaacaa cttttatgta tgcaaacaaa agcattgtaa     660
atcaggtttt tctaagagaa aggtcctcaa agattcagtg tgcttggtta ctggtattct     720
tagcaggatc ttctgttctt ttatattaca cctttcattc tcagtcactt tattacagct     780
taattttttt aaatcctact ttggaccatt tgagcttctg ggaagtattt tggattgttg     840
gaattacaga cttcattctg aaattctttt tcatgggctt aaaatgcctt attttattgg     900
tgccttcttt catcatgcct tttaaatcta agggttactg gtatatgctt ttagaagaat     960
tgtgtcaata ctaccgaact tttgttccca taccagtttg gtttcgctac cttataagct    1020
atggggagtt tggtaacgta actagatgga gtcttgggat actgctggct ttactctacc    1080
tcatattaaa acttttggaa ttttttgggc atctgagaac tttcagacag gttttacgaa    1140
tatttttac acaaccaagt tatggagtgg ctgccagcaa gagacagtgt tcagatgtgg    1200
atgatatttg ttcaatatgt caagctgaat ttcagaagcc aattcttctc atctgtcagc    1260
atatatttg tgaagagtgc atgaccttat ggtttaacag agagaaaaca tgtccactct    1320
gcagaactgt gatttcagac catataaaca aatggaagga tggagccact tcatcacacc    1380
ttcaaatata ttaagttgta taaactatca aggccacaaa atactaatgt catttggtca    1440
taatgactac tgataaggca tcagaatgga ttttcagggc taccagaaaa atgtttccag    1500
atggttttag aatgtaggac ttatgatcca attcaccaaa agattaaatg aaaccaccct    1560
gtgttttaaa atatatataa tgttcaacct aatgtatatg caacatttat tctattctaa    1620
ttatttgaca ggtaactgca gtgttaaatt gtaaatgtgt tttctttatg ttaccaaaac    1680
agcgaatttg aaattaggaa ctagtgggtt ttaggaggaa ctcagggtat tctttcctgg    1740
acattgtttt tcaggaataa agaatatttt tcataatatt tttaaggata catactatct    1800
aaaagtagaa ttttgttcag cattgacttt tataattccc atcctaaaaa ttcttaatat    1860
tttcataaaa tttgtatttt taaatgaaaa ttctaaatgt tgtattttat cagtaacatt    1920
ttctaagtga agattaattt actgaggatg atacattata gtattgtatt attctctgta    1980
gtaagattag taataagtga aaataaatga tttaaattca aaaaaa                    2026
```

<210> 6496
<211> 2401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (210)...(1774)
<223> similar to gi5410230 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6496

```
ccgggtcgac gatttcgtgc gggagacggc ggtcgaaaaa acccggcggc ctgaagcttg      60
tgctttcttt gacgcaaggg ctcgagacgc agccgccgtc ggccgagcgc ccggctagaa     120
gcgacaccag acggagcctc cggagttcct ccgcccccac ctcgccgggt cctggagccg     180
cagtcctccc agctgccctc ctcgtggcca tggagtgtcc acacctgagc tccagcgtct     240
gcattgctcc ggactcagcc aagttcccca acggctcccc gtcgtcctgg tgctgcagcg     300
tgtgccggtc caacaaaagc ccttgggtct gtttgacttg ttcaagtgtc cactgtggaa     360
ggtatgtgaa tggccatgca aaaaaacatt atgaagatgc acaagtacct ttaaccaacc     420
ataagaaatc agaaaagcaa gataaagttc agcacacagt atgtatggat tgcagtagct     480
acagtacata ctgttatcgc tgtgatgatt ttgtggttaa tgacaccaag ctgggactgg     540
tacagaaagt cagagaacac ttacagaact tggaaaactc agctttcaca gctgacaggc     600
ataagaaaag aaaacttttg gaaaactcaa cactaaacag caagttatta aaagtaaatg     660
gaagcaccac tgccatttgt gccacaggcc ttcggaattt ggggaacaca tgtttcatga     720
atgccatcct tcagtcactc agtaacattg agcagttttg ctgttatttc aaagaactgc     780
ccgccgtgga gttaaggaat gggaaaacag caggaaggcg gacataccac accaggagcc     840
aaggggataa caatgtgtct ttggtagaag agattagaaa gacactctgt gctttatggc     900
aaggcagcca gactgcattt agcccagagt ccttattta tgttgtttgg aagattatgc     960
caaactttag gggctatcaa cagcaggacg cccatgatct catgcgctac cttttggacc    1020
acctacactt ggaacttcag ggcggtttca acggtgtttc ccgctcagca attctgcagg    1080
agaattctac tctgtctgca agtaacaagt gttgcataaa tggagcatct actgttgtca    1140
cggctatatt cggaggcatt ctccaaaatg aggttaactg cctcatatgt gggacagaat    1200
ctagaaagtt tgatccattc ctagaccttt cattagatat tccaagtcag ttcagaagta    1260
agcgctctaa gaatcaagaa aatggaccag tttgttcgtt acgagattgt cttcgcagtt    1320
ttaccgactt agaagaactt gatgagacag agttatatat gtgccataaa tgcaaaaaga    1380
aacaaaagtc cacaaaaaag ttttggattc aaaaactacc caaggggcta tgcttacatt    1440
tgaaaagatt tcattggaca gcatatttaa gaaataaagt tgatacatac gtagaatttc    1500
cactgagagg cctagacatg aaatgctact tactagagcc tgagaacagt ggcccggaga    1560
gctgcctgta tgacctcgcc gctgtggtgg tgcaccatgg ttccggggtt ggttctggac    1620
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cactgactga cgaggagact gtggtgaagg cgaaggccta catccttttc tacgtggaac    1740
accaggccaa agctggatcg gataaacttt aatacctcct ccaaatcatc attcaccaac    1800
cataccagag aaacatttcc agttttccac aaatacttga tacaagattt aatttcatta    1860
tgcacttttc aatttcctat tttggattta gtttgtcaa tggtagtgac ttactgaaca    1920
tgggcaccaa ctaattttgt tgttgttcta ccagaaaacc tcagcagatg ttttgatttg    1980
ctgctttagt tgtaataatt caatttttat aggtagttgt aagaacttag tcttatttga    2040
cttttttatt ttatgttaat gttttcagtt ctcactttga ggcacattta catcaatgct    2100
tttgttcctc tcacatgctg aaagcaagat gtgttcctta ttgtgaagag cgacacaact    2160
gcctgctgcc tttccacagc tataatggac atcaggttga ctctaaatca aggatcatgt    2220
gtgcacaata cttgtggccc acaaaatttc acaatgactg ctgaggaatc attctttttg    2280
cctgtaaaat ataacaaagg gcatcattaa gtagaccagg taattactgc ttgtctctca    2340
aggctgctgt ctttatcagc actaactaaa taaatttgtt ggttcagttg taaaaaaaaa    2400
a                                                                    2401
```

<210> 6497
<211> 6976
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (374)...(2644)
<223> similar to gi3413860 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

5132

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ccgagctctg gagtcccaga agcggcagca ggagatggtc ctgaggagga agacccagga   180
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ccacttcttg ggggaccatc ctgcgcccac tgtcaatggc acccgtcctg cccgaaagaa   420
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cctggagcga cggatcattg acatcgtcat gcagagaatg accattgtca acctggaggc   540
tgacatggag cggctcatca agaaaaggga ggagctgttc ctcctgcagg aggcactgcg   600
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ggagggccga ctgaggcaga cggatatggc aggctcctcc cagaaccatc tgctcctgga   960
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gggtcccttt tggatggggc caaggtggag ctgctagaaa gattcctttg gggagatggt   3420
cagaaatact tcagttattt attattttgt tatttttatt ttttgctgtt gcctcctgga   3480
aacggacttg aagtttcttc ccctatattc tttccctcag ctcttggggg ccagaaatcc   3540
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ccttcctggg cctggccctc ctctcctgac tcccagatcc ttccctgccc tcttgtgtgc   6480
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5134

```
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cacaaagagc  ccgaggatcc  agagaagacc  cctgagatga  aattcagggc  cctgccctgc     6720
cccacccaac  tcttttccta  gcaatccatg  tccctgcccc  aggctgcagg  ccttgcatta     6780
ggctcctgct  gtcctgccat  gtatgtgact  agtcatcaag  gtgtatatat  gttttgtacc     6840
tctgccgatg  ggctgtacat  agtgtatgaa  agtatttaa  gaccccatgt  tgtacatttc      6900
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aatgtcaaaa  aaaaaa                                                        6976
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<210> 6498
<211> 3010
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (205)...(2559)
<223> similar to gi38420 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6498
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ccggcctctc  ctcccgcctc  gcccccaccc  ccacccacct  ctatcccagt  gtctccgtct      180
gagggtttgt  cctgttaatg  cgggatgagc  gatcacaaga  aggaggagga  ggaggaggcg      240
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gctacttgca  gcaaaatagg  gactcctggt  gaaaatcaag  caactggaca  acaacaaatt      420
attatagatc  caagtcaagg  attggtgcaa  cttcaaaatc  aaccacaaca  gctagaactg      480
gtaacaacgc  aacttgctgg  aaacgcttgg  caacttgttg  cctccactcc  tcctgcttca      540
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gtcatacaag  tacaaaatca  caagtggtag  tgtacagtac  caagtaattc  cacaacttca      720
gacagtggaa  ggtcaacaaa  ttcaaatcaa  tccaactagt  agttcatctc  tacaggattt      780
gcagggtcaa  attcagctca  tttctgcagg  taataatcaa  gctatactca  cagctgctaa      840
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acaggttcag  aatattcaga  gtctttcaaa  tttgcaagtt  cagaatgctg  ggttatccca     1680
acaattaacc  atcaccccag  tgtcttcaag  tggtggcaca  actcttgctc  agattgctcc     1740
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                                    5135

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cgttacaatc actagtgttg caggtcagca gcaaggacaa gatggagtaa aagtccagca    1920
agctactata gctcctgtaa ctgtagcagt tggaggaatt gctaatgcca cgataggtgc    1980
tgttagtcct gaccaactca cacaagtgca tttgcagcaa ggccagcaga cttctgatca    2040
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aggagaagga agaggcagta atgaaccagg aaaaagaag cagcatatct gtcatattga    2160
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ttctaaaagg tttatgcgga gtgatcatct ctccaaacat gtcaaaacgc accagaataa    2400
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gtttgcaggc tggaccttaa ttggacttat tttcttgaa agtactttgt tataaattca    2940
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atgatagcgc                                                           3010
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<210> 6499
<211> 1953
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (390)...(1728)
<223> similar to gi3170538 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6499
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aggcgggtgg tgcctgcccc tttaagggcg gggcgtccgg acgactgtat ctgagcccca     180
gactgccccg agtttctgtc gcaggctgcg aggaaaggcc cctaggctgg gtctgggtgc     240
ttggcggcgg cggcttcctc cccgctcgtc ctccccgggc ccagaggcac ctcggcttca     300
gtcatgctga gcagagtatg gaagcacctg actacgaagt gctatccgtg cgagaacagc     360
tattccacga gaggatccgc gagtgtatta tatcaacact tctgtttgca acactgtaca     420
tcctctgcca catcttcctg acccgcttca agaagcctgc tgagttcacc acagtggatg     480
atgaagatgc caccgtcaac aagattgcgc tcgagctgtg cacctttacc ctggcaattg     540
ccctgggtgc tgtcctgctc ctgcccttct ccatcatcag caatgaggtg ctgctctccc     600
tgcctcggaa ctactacatc cagtggctca acggctccct catccatggc ctctggaacc     660
ttgttttct cttctccaac ctgtccctca tcttcctcat gccctttgca tatttcttca     720
ctgagtctga gggctttgct ggctccagaa agggtgtcct gggccgggtc tatgagacag     780
tggtgatgtt gatgctcctc actctgctgg tgctaggtat ggtgtgggtg gcatcagcca     840
ttgtggacaa gaacaaggcc aacagagagt cactctatga cttttgggag tactatctcc     900
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cctacctcta ctcatgcatc tccttccttg gggttctgct gctcctggtg tgtactccac    960
tgggtctcgc ccgcatgttc tccgtcactg ggaagctgct agtcaagccc cggctgctgg   1020
aagacctgga ggagcagctg tactgctcag cctttgagga ggcagccctg acccgcagga   1080
tctgtaatcc tacttcctgc tggctgcctt tagacatgga gctgctacac agacaggtcc   1140
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tcattgtggc catccacatc ctggagctgc tcatcgatga ggctgccatg ccccgaggca   1320
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ttcaggttgt actcatcttt tacctaatgg tgtcctcagt tgtgggcttc tatagctctc   1440
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actgtgtctg tctcctggtc ctaagctcag cacttcctgt cttctctcga accctggggc   1560
tcactcgctt tgacctgctg ggtgactttg gacgcttcaa ctggctgggc aatttctaca   1620
ttgtgttcct ctacaacgca gcctttgcag gcctcaccac actctgtctg gtgaagacct   1680
tcactgcagc tgtgcgggca gagctgatcc gggcctttgg tgagagggag tgagggtgca   1740
ggctagtggg gggtggtaat catctaggac actctggaac atggatcacc ccagcagggg   1800
agagggtttg cttcctgctt tgtgggtaac gtacctcatc cacacattct gtggcttggc   1860
tgcctggtcc ctaacggact ggacctttga cttgcttttg actgcccatc tcctcttctc   1920
cagggctgga cagactgccg ctgcccgtct ccg                                 1953
```


<210> 6500
<211> 5259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5202)...(2146)
<223> similar to gi3327108 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6500
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acccacaaca gctttgaaag gagtatttga tgaacacatc tgagccaaaa gcccagagtc    180
tctctccaag gccatgcagt ttgttcactg atgggacagt ccctcaaaac agcccacgct    240
aagtagacag atacagtctc cccaaatgtt accaatctta ctccccttga aaacaggcag    300
agtgaagtgc aatgaaagac aagttaatta aaaagccact cacaactggc agtaaatttt    360
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5138

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5139

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atgtttctga agttcgtgac cagctgctcc agacccccgc tcctgggatt cgcctacctc   3660
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ctgggcagcg tcctccgggg cttcttcacc atccgcaagc gggagccagg cggccgcctg   3780
cccacctcct ccacctgctt caacctgctc aagcttgccc aaactacagc aagaagagcg   3840
tcctccgcga ggaagctgcg ctacagccat cagcactgaa cacgggcttt gaactctcct   3900
agctcctgtc ccagccctgc ctccagggct cctgggctgc cagggacctt cagctcccag   3960
aggcagtgtg gtcctgggaa tgtgaccaac atgccaggtg acattggccc ctagaccctc   4020
tctatagcca tgagactcct tgtggcctca agaaatttag acgcccacga cagcactaca   4080
cagcatctcc aggtgatgcc caaggcacag ggctgcagaa aataaacctc cagattccac   4140
caacacgggt ccattcttcc tggtgatggc agaggggctt cttttagcta gtttgatctt   4200
ttgggagtct gtcttttcct tagccgtctg agtgagctgt gtatgaacaa gtcccaggag   4260
ttccaagagt ctagagtggt ttttgcagca tgggttgagt gtacaaagcc tactgtgcgt   4320
gagatcctct ccttccgttt ctgaaatctc ttactcaggt aaggcctcgc caagcctcta   4380
tgcaccccac aaagtttctg cctccatgcc gtccacagcg cctcttccca gacagccagg   4440
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5142

```
cccatctgct gcccagggaa gcgcaggcgc ctgctaggga cgctatggac accgtgagtc   4500
caaggcgctg ctcctgcctt gaagccacgc gctccacgcc gcggccctcc cattttctgc   4560
gtcctcagcg ggctgagctg ccagagagcc ttcccggacc tattcccgtc ctatgcattc   4620
acattggcat cctggtttgg gggaagaaaa acaacggccc ttagcagcag ccccgtttcc   4680
agaatgtgct gcctgttccc caaagcctgc ttgtcccgcg gaggacggct gcctttgacc   4740
ctgcttattt gtctcactgg ttatctaatg aggaacaaac actaacctaa ggtacacatc   4800
ccatctgggc ggtggcttca ctcctgagtc tgcaaaatcc caggaaactt gggtcttgct   4860
gcccatcctt cctcagcaca gggaacccgg aagcccgttg cactgacaga ggctcacacc   4920
ctctgggttt tttgtttttt ttttaaactt catttctctt ccaacccatt gggttcctct   4980
gccctcattc tttacctttg ttgtaagaac tttagctcca gggaactgag gcaaaggccc   5040
tgtttgtggt ctgtgttgac agccacccac cctctcccac ctcatgctcc tgcacctgca   5100
ccaccaaggt tgatgccgga ttcgaagcca ggaaggccca gtccctcg              5148
```

<210> 6504
<211> 4591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (80)...(1298)
<223> similar to gi3327200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6504
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tttcgtcccc cctccgcgac tgcggataat gagcgcctcg ggccgcccag cgcagccgga     60
gtatccacct cgatgaccac gggctgagcc ccgcgccgcc accatgtccg tggccttcgc    120
gtctgcccgg ccaagaggca aggggaggt tacgcagcaa accatccaga agatgctgga    180
cgagaaccac cacctgatcc agtgcatcct ggagtaccag agcaagggca agacggccga    240
gtgcacgcag taccagcaga tcctgcaccg gaacctggta tacctggcca cgatcgcaga    300
ctccaaccag aacatgcagt ccctgcttcc tgccccgccc acgcagaaca tgaacctggg    360
ccctggagcc ctgactcaga gcggctccag ccagggcctg cactctcagg gcagcctgag    420
tgacgccatc agcacgggcc tgccaccctc ctccctcctg cagggccaga ttggcaacgg    480
gccgagccac gtgtccatgc agcagacggc gcctaacacg ctgcccacca cctccatgag    540
catctctggg cccggctaca gccacgcggg acccgcctcg cagggcgtcc ccatgcaggg    600
gcaaggcacc atcggcaact acgtgtctcg gaccaacatc aacatgcagt ccaacccagt    660
ctccatgatg cagcagcagg cggccacgtc gcactacagc tcggcgcagg cggcagcca    720
gcactaccag ggccagtcgt ccatcgccat gatggggcag ggcagccagg ggagcagcat    780
gatggggcag cggcccatgg cgccctaccg gccctcccag caaggctctt cccagcagta    840
cctgggccag gcagcagtac tatggcgagc agtacagcca cagccagggc agctgcgcag    900
ccccatgggc cagcagtcat acaccggagg cccatgtcga ttacgcctac cagcagtcat    960
cttacacgga gcagagctac gccaggtcat tcgaggagtc cacgcagcac tactatgagg   1020
ggggaaactc ccagtacagc cagcagcagg ccgggtacca gcagggtgcc gcgcagcagc   1080
agacgtactc ccagcagcag taccccagcc cagcagagct accccgggca gcagcagggc   1140
tacgggtctg cccagggagc cccgtcacag taccccggct accagcaagg ccaaggccag   1200
cagtacggaa gctaccgagc accgcagaca gcgccgtctg cccagcagca gcggccctac   1260
ggctatgaac agggccagta tggaaattac cagcagtaag ggacacacat tctggctgga   1320
gcccttgtgg tagcgtgttc atccaggggc cggatgggct ggcggcagct ctggtgaatt   1380
gtgacatgtt ggttacctgt tcgcccagtg ccacgtctgc atgtgaagcg tgctcatttc   1440
atgctgggta tgacgccgag cgcacaccac tggcgtgaga cagcgcttgg tggtgtgata   1500
```

                              5143

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cttttggtgc tgtgtatagt attgtatgtc ggtacacgga gaggtatcct ttttttgtcc     1560
cccgcccct tctcaatgtt tctagctagc tttgggggtc attttgtcat cagagcattc     1620
tgtgcccagg gacaggacag atctcgagga caccacagtc cacctgttcc cgtcaacaga     1680
cgttaggtct cattttcctc ctcatgcagt gttgtagtgt gggttgtcaa cttttcttta     1740
actggctacg ccacagctgg acacacatgc agccctgga gggcagcctc ttcctgtgcc     1800
tcgatggggt gggtgggagg gcatcttctg tgcgttgggt cagtttctgt tacgtaacga     1860
aaaggataaa catctcccac gggagaggcc acagatggcc acttccagag cttgcccatt     1920
gcctgtctct cgccaattcc gtttatccaa aaaggtacat gtttttgtat taaaaagtaa     1980
acagggatca gtgactgtat tccaaataaa tatgaatccc taagggccgt ggacaaattg     2040
cctaacccag ggccagcggt attgctgaag gaaaggggca gctctctggg aagtgggccc     2100
tcagagatta ctctggcttt gacccttgtt tagctgatgg tcatttctgg gattggaata     2160
tttaataagc ccaattctaa gttgataggt aattttaaat attcaaacca aatcttccca     2220
acagttggca agttgtttat tttatattat ttcttccagg acctacttgc tcagatctcc     2280
aagcaagcat ttctttctt ttagggatgt ctgaaagtca catccagtta cattactgtg     2340
ttctttctaa tgaaaagtaa aggtttata tagagaaact tgagtaattt ttacatttct     2400
aagacattaa atcccattta aattctgtgt gaacattaaa gacagcacac ttgcaaaagt     2460
atggtcaaag gaaaaaaatc ccacatttca attaacaagt agcatggaca tttgatcaac     2520
ctttagttgg aataataata ttcatatttg ctatgaatcc ttttaaaaaa atctttggat     2580
aaatgctgac agatttccaa gaactaccaa gaaaatacaa gagatatcca atgcttgata     2640
tatgaggcct agtaataacg atatttctct ttaattgatg ttttgtttta aaagttaaaa     2700
gtaattcttg gcgtggtggt tcacgcctgt aatcccagca ctttgggagg ccgaagcggg     2760
cggatcacct gaggtcggga gttcgagacc agcctgacca acatggagaa accccgtccc     2820
tactaaaaat acaaaattag ccaggtatgg tggtgcatac ctgtaatccc agctactcgg     2880
gaacctgagg caggagaatg gcttgaaccc aggagacaga ggtggtggtg gggcaagatc     2940
gcaccattgc acccgagcct aggcaacaag agtggaaatt ccgtctcaaa aaaataaata     3000
aataaataaa taaataagtt aaaattaatt ctttatccag agtcgggtgc tttagaattt     3060
ataagtcact tatgtgtttt gcttgaatta attctgacag cccctatgag gaaatctgga     3120
ggcaggtaac agttcccatt ttagagatga agaactgagg cacagattaa aggacttgcc     3180
tgtgttgaat accagtcctg ttctaggaca ttctcccctc tcctaggaga cggatgtcac     3240
gcacaaatgg ggagagaagt gtttattttg taggcactaa gggtttctaa aacccttaac     3300
actggtaagg gctcaaaaat aaacgtatgt gttcatattc gatcaccgaa atgagagttc     3360
ttaattgcta attgacaaac gcgttagcaa tttcagttag ggagtcatct cccttgattg     3420
tgttctttc ctgtcaattt tcatagacct aatttgcaaa ctcaatcggg gactaaaatt     3480
tcccactgaa aatgttaaac atttagata actgtgaaga tagtttatt ttattccttg     3540
ccaatctggg aatatgcctt ttttgtgtgt ttgtgtgttt tttaagtgc tgtattaata     3600
atactttctg aaagaaaagg acacttaccc caaaacttca atctgaaatg tcttacatta     3660
agaatatctt gaatgttgtg tatatatttt aaaaagcact ttgcaaaata gtttgtacat     3720
ttatttccta atttatacat gatttttggt gttaatatat ttaatgatta ataacagaat     3780
gtttatttaa tgtgctgtcc atttttatgt aatattatgg ggaaagtgat gccagcagtt     3840
ccttttcatt attctatctt ctgtcatatg aatgttgagc aaagcttagg ccaacatgaa     3900
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agtgaagaag caaaggaaga catgaaaatt gacgctcatt cttcttccta ttgttccctg     4020
acatccagca aattgtgaat ttgaaaaatg atggccagtt ttcagaagtg ctgacaaatt     4080
catattgggt atgcaaaagc tcatcaccca ttaaggtttg ttgttgaatc aacagtactc     4140
agcatattaa aacagtacat cagaactcat gccaacagtc tttatgatgg gattaaggtg     4200
gacaagatct cctaagatct gtgaatggga ttaaggtgga caagatctcc taagatctga     4260
aaagaaacct taatacgctc atatggttgg agtgttaagt gaacctctga ttttgtcagg     4320
gttttctac gtgtaggcgt gaataggggg caccccttca aaactgtaca aagaagacga     4380
ctgtttttcca tttccatttta aacatttta gccacttcat ttctatttat tgaacaggtc     4440
aaatttgtct tgttatttgt gagtacagta catttaaaaa acatccttat cggttatttt     4500
tttttcagtc ggagtttgac gtataaaatt gtttatgctt ttggtgtaat ctctttaatt     4560
aaactggttc ttcaaaaatc aaaaaaaaaa a                                   4591
```

5144

```
<210> 6505
<211> 2312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (321)...(1264)
<223> similar to gi545998 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 6505
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gaaaaggagg ggcgtggggc gggcgtgggg gcagttcccc agcccaggtc ctcctctcac     120
ccgggccagt tttcaaggcg ggctgtaact ggtggcattt gtcccgggac caggctggag     180
tgcaacggtg cgatctcggc tcatcacaac ctccacctct cgggttcaaa cgattctcct     240
gccttagcct cccaagtagc tgggattaca ggtccacagt tttatgtgtg agcaagatgg     300
aggctgacct gtctggcttt aacatcgatg cccccgttg ggaccagcgc accttcctgg     360
ggagagtgaa gcacttccta aacatcacgg accccgcac tgtctttgta tctgagcggg     420
agctggactg ggccaaggtg atggtggaga agagcaggat gggggttgtg cccccaggca     480
cccaagtgga gcagctgctg tatgccaaga agctgtatga ctcggccttc caccccgaca     540
ctggggagaa gatgaatgtc atcgggcgca tgtctttcca gcttcctggc ggcatgatca     600
tcacgggctt catgctccag ttctacagga cgatgccggc ggtgatcttc tggcagtggg     660
tgaaccagtc cttcaatgcc ttagtcaact acaccaacag gaatgcggct tcccccacat     720
cagtcaggca gatggccctt tcctacttca cagccacaac cactgctgtg gccacggctg     780
tgggcatgaa catgttgaca aagaaagcgc cgcccttggt gggccgctgg gtgccctttg     840
ccgctgtggc tgcggctaac tgtgtcaata tccccatgat gcgacagcag gagctcataa     900
agggaatctg cgtgaaggac aggaatgaaa atgagattgg tcattcccgg agagctgcgg     960
ccataggcat cacccaagta gttatttctc ggatcaccat gtcagctcct gggatgatct    1020
tgctgccagt catcatggaa aggcttgaga aattgcactt catgcagaaa gtcaaggtcc    1080
tgacgcccca ttgcaggtca tgctgagcgg gtgcttcctc atcttcatgg tgccagtggc    1140
gtgtgggctt ttcccacaga aatgtgaatt gccagtttcc tatctggaac cgaagctcca    1200
agacactatc aaggccaagt atggagaact tgagccttat gtctacttca ataagggtct    1260
ctaaatgccc cacttcagca aggaccagtc tattcccata ttcaccagct cctccttagc    1320
tacgtgcaca cttgtgtcct ccttcccctt tgccaacaag gcctgaaggc cagggtagat    1380
tgggggggtgg gacaatgaat gcctcatact tacaccctgg tactggttga ttggacctca    1440
ggggaaaaaa gtgaaaaagg gtagcaaagg ccaatgtctt ctagctgctt cctcaacccc    1500
tgtcccctgg agaccagaag ctgaggccct ctcagggagg agacatccaa gcaaatcatt    1560
tggaaaagtt aggaaacctt taggattctg gttccagcca gggttgagga aaagaccttg    1620
gatcaaaagg aagcttctat acctctttct tcttcgcttc ctcctctccc aagcaatgga    1680
aacttttacc catgtaattc tagctgaact caggaaaaag aaggggggaaa ggactctgtc    1740
cccttggggc tcatcaccct tccacatcct cctcctcgtt gccccctggt caggcagctt    1800
cttttttttt tttaaaaag ggagtttgt tttgccccc aggcggaaag gcagggccc    1860
aatttggtta aatggaaaat ttgccctcgg gattaaagga aattttctgg cttaacccctt    1920
taaggaaccg ggaataacgg ggccctggcc ccccccgggg gaaaattttg gattttaagg    1980
gaaaaggggt ttaaccatgg tggccaaaag gggtttaaac ccctgacctt aggggaaccc    2040
cccccccaaa cctttgaaat tggggggatt accgggttgg acccccaaac ccagcccgga    2100
agggtttttt gggagggggg gtaaccttgg aattttcaaa cccttagggg tttttagggc    2160
taaaaagggg accggcccag gccacaaaat taacgggggt ttaaaaacat ggttgaacct    2220
aattttggaa attttcttta aaaaagggaa ggttttttaa cccaatggcc aaaaactttg    2280
gtttaaaaaa atagccccat aactgggaag aa                                  2312
```

5145

<210> 6506
<211> 2202
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (492)...(1105)
<223> similar to gi5824409 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6506
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cgctccgcaa ttcccgtgtc gacgatttcg tccacagcgg cctaggggtg aaaggacagc    60
cagggttaga tgttctgagg aggcgggagc aaccgagaga gcacgtgagc atctgtcctt   120
tctacccgtt cctctttatc tttagtggtc agtagcagcg gggatagccc ggggcccggt   180
gtatggccac ggagttacag tgtccggact ccatgccctg tcacaaccag caagtaaact   240
ctgcctcaac cccaagtccc gagcagctgc gacctggcga tctgatcctg gaccacgcag   300
ggggaaacag agcctccagg gccaaggtga ttctcctcac ggggtacgcc cattctagcc   360
tgccggccga gctggactct ggggcctgcg gcggctccag cctcaactca gagggcaaca   420
gtggtagtgg tgacagtagc agctatgacg caccagctgg caactccttc ctagaggact   480
gcgaactctc ccggcagatc ggggcgcagc ttaagctgct gcctatgaat gatcagatac   540
gggagctaca gaccatcatc cgggacaaga cagccagtag aggtgacttc atgttttctg   600
cggatcgttt gatcagactt gttgtggaag agggattgaa tcagctgcca tataaagaat   660
gcatggtgac cactccaaca gggtacaagt atgaaggagt gaaatttgag aagggaaatt   720
gtggggtcag cataatgaga agcggtgagg caatggaaca aggtttacga gactgctgtc   780
gatccatacg aattggaaag atcctgattc agagtgatga ggagacacaa agagccaaag   840
tatattatgc caaattcccc ccagacattt accggagaaa agtccttctg atgtatccaa   900
ttctccagac tgggaaatac tgtaattgaa gctgtaaagg ttcttataga acatggagtt   960
caacccagtg ttatcatcct actcagtctg ttctccactc ctcatggtgc caaatcaatc  1020
attcaggagt ttccagagat cacaatttta actactgaag ttcatcctgt tgcacctaca  1080
cattttggac agaaatactt tggaacagac taagttattt aagtaaaata attgtcttat  1140
gtaatattac aatcatgttt tgattttcta tttgttttac tgattcactt gagggtggca  1200
gagaaaaatg tgttaaaatg cttttttagtt ttggaagtgg gtatatttga ggttatatct  1260
catttagtta tttgtttact gttggcaccg aattcaacaa tgaagtatat gcaactctta  1320
caaaacataa attttaataa tattctaatg caaattactg aaccctcagt gcattaaaat  1380
tatttcctaa tttatgagcc tcttagtttg gaggttgctt gaagccacaa ataaaactca  1440
aatgagagtc agttctttgt cccactgtag tttgcatttt gtttagtttg gttttagctc  1500
tactaaggtt tcacatatgt ggctattgcc acattcctct actgtttttct ttctgatact  1560
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attaatgtcc tcattcaatt ggcagaccta ggatgtatgg ttaactctca ggccattatg  1680
tttttcatgg ctcatttccc aaactgcatt gttggtaggt gccttgctaa gctgtaatgc  1740
agtgaagaag atggtggggc atttttagta attggaactg taacattaat ttacaagatt  1800
gaaccgggga tgtctggatg ctgacaaggg agagccaagt actgttaatg ccatcaatcc  1860
tctaggaagg aattggtggt ttttctgaag tgtgggggaa agggtggttt cttgctggat  1920
ttcatggcca gtaagtaaat ttaaatgctt cattttaat ttggatgttt ctgctagaga  1980
cctttgattt ggaaattagt tattttgcat gtttgtcaac tgtatatgta tgaaaataga  2040
aaaaaaacat gctttttgta aaaacccta agatttgtat atgttcatct ttaggcttct  2100
gaaagggaga gaaatcatat tggaaatcag tgttggtgtt ttgaaatctg cttgtaaaac  2160
tctcatctca ttttacattg atattaaaac attttaacag tg                     2202
```

5146

```
<210> 6507
<211> 3393
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (393)...(2700)
<223> similar to gi1296666 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters




<400> 6507
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gctccggcca ggtgagcggg gcgcataggt dacggagggc cgagggcacg ggtatgagtt     120
tctgccgggg gcgaggtgag cggcttctgg gaggaggcct tttcttgaca gtttagggta     180
gcgggggaat ggatgatccg ggagtccccl gcggatgtcg tcccgcacca ggccgggacc     240
gatttctggc tccagtttcc ccagaattgc ggagtgcgca cacctggaag gacccaagtc     300
ccgttttata gttgagaaac tcaagactca gacaagtgaa acgactttg cttcatgaca      360
gctggaactg gaacccagtt ccctttttaga ctatggcgac atacctggag ttcatccagc     420
agaatgaaga acgggatggt gtgcgtttta gttggaacgt gtggccttcc agccggctgg     480
aggctacaag aatggttgta cccctggctt gtctccttac tcctttgaaa gaacgtccag     540
acctacctcc tgtacaatat gaacctgtgc tttgcagcag gccaacttgt aaagctgttc     600
tcaacccact ttgtcaggtt gattatcgag caaaactttg ggcctgtaat ttctgttttc     660
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gaaggatggt gcaggttcat gagctaagct gtgaaggaat ctccaaaagt tatgtcttcc     960
gagggaccaa ggatttaact gcaaagcaaa tacaggatat gttgggcctg accaagccag    1020
ccatgcccat gcagcaagca cgacctgcac aaccacagga gcacccttt gcttcaagca     1080
gatttctgca gccctgttca caagattgat atgaacctca ctgatcttct tggggagcta    1140
cagagggacc catggccagt aactcagggg aagagacctt tgcgatccac tggtgtggct    1200
ttgtccattt gctgttggct tgctggaggg cacttttcca aacacaggga gccaggatca    1260
tgctgtttac tggaggtccc cctacccaag ggcctggcat ggtggttgga gatgaattaa    1320
agattcctat tcgttcttgg catgatattg agaaagataa tgcacgattc atgaaaaagg    1380
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tttatgcttg tgcccttgat caaactggac ttttggagat gaagtgttgt gcaaatctta    1500
ctggaggcta catggtaatg ggagattctt tcaacacttc tctcttcaag cagacattcc    1560
aaagaatctt tactaaagat tttaatggag atttccgaat ggcatttggt gctactttgg    1620
acgtaaagac ctctcgggaa ctgaagattg caggagccat tggtccatgc atatctctga    1680
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aaatctgtgg cctagatcct acatctacac ttggcatcta ttttgaagtt gtcaatcagc    1800
acaacacccc gatcccccaa ggaggcagag gagccatcca gtttgtcacg cattatcagc    1860
actccagcac ccagagacgc atccgcgtga ccaccatcgc ccgaaattgg gcagatgtac    1920
agagtcagct caggcacata gaagcagcat ttgaccagga ggctgcggca gtgttgatgg    1980
cacggcttgg ggtgttccga gcggagtcag aggaggggcc cgatgtgctc cggtggctgg    2040
accgacaact catccgactg tgtcaaaagt ttggacagta aacaaagaa gacccccactt     2100
cttttaggtt atcagattcc ttttctctat atcctcagtt tatgttccat ctgagaagat    2160
ctccatttct tcaagtgttt aacaacagtc ctgatgagtc gtcatattac agacatcatt    2220
ttgcccggca ggacctgacc cagtccctca tcatgatcca gcccattctc tactcttact    2280
cctttcatgg gccaccagag ccagtactct tggatagcag cagcattcta gctgacagaa    2340
ttttgctgat ggatactttc tttcaaattg tcatttatct tggtgagacc atagcccagt    2400
```

5147

```
ggcgtaaagc tggctaccag gacatgcccg agtatgaaaa cttcaagcac cttctgcagg    2460
caccactgga tgatgctcaa gaaattctgc aagcacgctt cccgatgcca cgttacatca    2520
acacggagca tggaggcagt caggctcgat tccttttgtc caaagtgaac ccatctcaga    2580
cacacaataa cctgtatgct tggggacagg aaactggagc acccatccta actgatgatg    2640
ttagcctgca ggtgttcatg gaccatttga agaagctggc tgtctccagt gcctgttaag    2700
ctgaggatac aaccaggaaa tgcaacggtg tcagattgtg ttcaaaatgt ctagaaaggc    2760
ttgataacat tcctgttact tttctagcag attttaacaa ataatcaagg acattttata    2820
tgtaactctt tagattataa tttatttgta ttcctgtctt tgtccttttt cttgcactat    2880
aaaattataa ggtcataaat gttttggtac ttgtagatgt ttatgtgctt tttgtatcct    2940
aacttttaga atctaaataa aatcagaggt aatgtatttt ggcagcttgt ttaggtgaga    3000
atcttaatga tcataaaagg aaataaatct agatgcagaa agtactggct aaaatattgc    3060
taatacaaat gtgatttcct gaggtctctg tgtgagtgtg tatgtgtttt aagtgacttc    3120
cttaagaggt gtttccctga accctaattc cccataatta aagtaatgta tatgccagga    3180
tcaaaatgaa acaaatatac cttatcccta aagagctcat aacaaataag ttacctccac    3240
tctataaact cagacctact ttttgaagat aactgctttt aacctctcct tacaagattt    3300
ttgttgttga tgtatttaat tttagcccat gtctcaattc tcattttcaa agaaatcaat    3360
atattaatat accttggtc aaaaaaaaaa aaa                                  3393
```


<210> 6508
<211> 1895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (126)...(1550)
<223> similar to gi5442030 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6508
```
cccacgcgtc cgccgccgcc accgtaaggc taggccgcga gcttagtcct gggagccgcc      60
tccgtcgccg ccgtcagagc cgccctatca gattatctta acaagaaaac caactggaaa     120
aaaaaatgaa attccttatc ttcgcatttt tcggtggtgt tcacctttta tccctgtgct     180
ctgggaaagc tatatgcaag aatggcatct ctaagaggac ttttgaagaa ataaaagaag     240
aaatagccag ctgtggagat gttgctaaag caatcatcaa cctagctgtt tatggtaaag     300
cccagaacag atcctatgag cgattggcac ttctggttga tactgttgga cccagactga     360
gtggctccaa gaacctagaa aaagccatcc aaattatgta ccaaaacctg cagcaagatg     420
ggctggagaa agttcacctg gagccagtga gaataccccca ctgggagagg ggagaagaat     480
cagctgtgat gctggagcca agaattcata agatagccat cctgggtctt ggcagcagca     540
ttgggactcc tccagaaggc attacagcag aagttctggt ggtgacctct ttcgatgaac     600
tgcagagaag ggcctcagaa gcaagaggga agattgttgt ttataaccaa ccttacatca     660
actactcaag gacggtgcaa taccgaacgc aggggcggt ggaagctgcc aaggttgggg     720
ctttggcatc tctcattcga tccgtggcct ccttctccat ctacagtcct cacacaggta     780
ttcaggaata ccaggatggc gtgcccaaga ttccaacagc ctgtattacg gtggaagatg     840
cagaaatgat gtcaagaatg gcttctcatg ggatcaaaat tgtcattcag ctaaagatgg     900
gggcaaagac ctacccagat actgattcct tcaacactgt agcagagatc actgggagca     960
aatatccaga acaggttgta ctggtcagtg gacatctgga cagctgggat gttgggcagg    1020
gtgccatgga tgatggcggt ggagccttta tatcatggga agcactctca cttattaaag    1080
atcttgggct gcgtccaaag aggactctgc ggctggtgct ctggactgca gaagaacaag    1140
gtggagttgg tgccttccag tattatcagt tacacaaggt aaatatttcc aactacagtc    1200
```


5148
```

```
tggtgatgga gtctgacgca ggaaccttct tacccactgg gctgcaattc actggcagtg    1260
aaaaggccag ggccatcatg gaggaggtta tgagcctgct gcagcccctc aatatcactc    1320
aggtcctgag ccatggagaa gggacagaca tcaacttttg gatccaagct ggagtgcctg    1380
gagccagtct acttgatgac ttatacaagt atttcttctt ccatcactcc cacggagaca    1440
ccatgactgt ccatgggatc caaacgcaga tgaatgtttg ctgctgctgt tttgggctgt    1500
tgtttcttat gtgtgttgca gacatggaag aaatgctgcc taggtcctag aaacagtaag    1560
aaagaaaccg ttttcatgct tctggcccag gaatccctgg gtctgcaact ttgggaaaac    1620
ccctcttcac ataaccattt tcatcccaat tcatcttcaa agcacaactc taatttcatg    1680
ctttctcgtt attatctttc ttggatactt tccaaattct ctggattcta ggaaaaaggg    1740
aatcattctc ccctcccctc cccacccaca tagaatcaac atatggtagg gattacagtg    1800
ggggcatttt ctttatatca cctcttaaaa acattgtttc cactttaaaa agttaaacac    1860
ttaataaatt tttggaaata atctgaaaaa aaaaa                               1895



         <210> 6509
         <211> 1678
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (146)...(1264)
         <223> similar to gi927040 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



         <400> 6509
gaggcagtaa ggacttggac tcctctgtcc agcttttaac aatctaagtt acgccctctt      60
ctgggtcacg ctagaatcag atctgctctc cagcatcttc tgtttcctgg caagtgtttc     120
ctgctacttt ggattggcca cgatgggctg gagctgcctt gtgacaggag caggagggct     180
tctgggtcag aggatcgtcc gcctgttggt ggaagagaag gaactgaagg agatcagggc     240
cttggacaag gccttcagac cagaattgag agaggaattt tctaagctcc agaacaggac     300
caagctgact gtacttgaag gagacattct ggatgagcca ttcctgaaaa gagcctgcca     360
ggacgtctcg gtcgtcatcc acaccgcctg tatcattgat gtctttggtg tcactcacag     420
agagtccatc atgaatgtca atgtgaaagg tacccagcta ctgttggagg cctgtgtcca     480
agccagtgtg ccagtcttca tctacaccag tagcatagag gtagccgggc ccaactccta     540
caaggaaatc atccagaacg gccacgaaga agagcctctg gaaaacacat ggcccactcc     600
atacccgtac agcaaaaagc ttgctgagaa ggctgtgctg gcggctaatg ggtggaatct     660
aaaaaatggt gataccttgt acacttgtgc gttaagaccc cacatatatc tatggggaag     720
gaggcccatt cctttctgcc agtataaatg aggccctgaa caacaatggg atcctgtcaa     780
gtgttggaaa gttctctaca gtcaacccag tctatgttgg caacgtggcc tgggcccaca     840
ttctggcctt gagggctctg cgggacccca agaaggcccc aagtgtccga ggtcaattct     900
attacatctc agatgacacg cctcaccaaa gctatgataa ccttaattac atcctgagca     960
aagagtttgg cctccgcctt gattccagat ggagccttcc tttaaccctg atgtactgga    1020
ttggcttcct gctggaagta gtgagcttcc tactcagccc aatttactcc tatcaacccc    1080
ccttcaaccg ccacacagtc acattatcaa atagtgtgtt caccttctct tacaagaagg    1140
ctcagcgaga tctggcgtat aagccactct acagctggga ggaagccaag cagaaaaccg    1200
tggagtgggt tggttccctt gtggaccggc acaaggagac cctgaagtcc aagactcagt    1260
gatttaagga tgacagagat gtgcatgtgg gtattgttag gaaatgtcat caaactccac    1320
ccacctggct tcatacagaa ggcaacaggg gcacaagccc aggtcctgct gcctctcttt    1380
cacacaatgc ccaacttact gtcttcttca tgtcatcaaa atctgcacag tcactggccc    1440
aaccagaact ttctgtccta atcatacacc agaagacaaa caatatgatt tgctgttacc    1500
```

```
aaatctcagt ggctgattct gaacaattgt ggtctctctt aacttgaggt tctcttttga   1560
ctaatagagc tccatttccc ctcttaaatg agaaagcatt tcttttctct ttaatctcct   1620
attccttcac acagttcaac ataaagagca ataaatgttt taatgcttaa aaaaaaaa     1678
```

<210> 6510
<211> 2359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (501)...(1246)
<223> similar to gi3882271 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6510
```
ttcggcagag gccgaacctg gcttcgctaa cgccctccca gctccctcgg gtctgacttc     60
cggtttcctc gcgcgtccct ggcgcgaccc gcggacagcg gcagcccctt ttccggctga    120
gagctcatcc acacttccaa tcactttccg gagtgcttcc cctccctccg gcccgtgctg    180
gtcccgacgg cgggcctggg tctcgcgcgc gtattgctgg gtaacgggcc ttctcccgcg    240
tcggcccggc ccctcctgcc tcggctcgtc cctccttcca gaacgtcccg ggctcctgcc    300
gagtcagaag aaatgggact ccctccgcga cgtgcccgga gcagctccct tcgctgtgga    360
agcggcggtg tcttcgaaga aaccggaagc ccgtggtgac ccctggcgac ccggtttgtt    420
ttcggtccgt ttccaaacac taaggaatcg aaactcggcg gccttggggg cggccctacg    480
tagcctggct tctggttgtc atggatgcac tggtagaaga tgatatctgt attctgaatc    540
atgaaaaagc ccataagaga gatacagtga ctccagtttc aatatattca ggagatgaat    600
ctgttgcttc ccattttgct cttgtcactg catatgaaga catcaaaaaa cgacttaagg    660
attcagagaa agagaactct ttgttaaaga agagaataag atttttggaa gaaaagctaa    720
tagctcgatt tgaagaagaa acaagttccg tgggacgaga acaagtaaat aaggcctatc    780
atgcatatcg agaggtttgc attgatagag ataatttgaa gagcaaactg gacaaaatga    840
ataaagacaa ctctgaatct ttgaaagtat tgaatgagca gctacaatct aaagaagtag    900
aactcctcca gctgaggaca gaggtggaaa ctcagcaggt gatgaggaat ttaaatccac    960
cttcatcaaa ctgggaggtg gaaaagttga gctgtgacct gaagatccat ggtttggaac   1020
aagagctgga actgatgagg aaagaatgta gcgatctcaa aatagaacta cagaaagcca   1080
aacaaacgga tccatatcag gaagacaatc tgaagagcag agatctccaa aaactaagca   1140
tttcaagtga taatatgcag catgcatact gggaactgaa gagagaaatg tctaatttac   1200
atctggtgac tcaagtacaa gctgaactac taagaaaact gaaaacctca actgcaatca   1260
agaaagcctg tgcccctgta ggatgcagtg aagaccttgg aagagacagc acaaaactgc   1320
acttgatgaa ttttactgca acatacacaa gacatccccc tctcttacca aatggcaaag   1380
ctctttgtca taccacatct tcccctttac caggagatgt aaaggtttta tcagagaaag   1440
caatcctcca atcatggaca gacaatgaga gatccattcc taatgatggt acatgctttc   1500
aggaacacag ttcttatggc agaaattctc tggaagacaa ttcctgggta tttccaagtc   1560
ctcctaaatc aagtgagaca gcatttgggg aaactaaaac taaactttg cctttaccca   1620
accttccacc actgcattac ttggatcaac ataatcagaa ctgcctttat aagaattaat   1680
ttggaagaga ttcacgattt caccatgagg acacttatct ctttcagtgg tcctcccaag   1740
aaattattta acaaactgaa aggagatttt gattaaaatt ttgcagaggt cttcagtatc   1800
tatatttgaa cacactgtac aatagtacaa aaaccaacat agttggtttt ctagtatgaa   1860
agagcaccct ctagctccat attctaagaa tctgaaatat gctactatac taattaataa   1920
gtaaacttaa ggtgtttaaa aaactctgcc ttctatatta attgtaaaat tttgcctctc   1980
agaagaatgg aattggagat tgtagacgtg gttttacaaa atgtgaaatg tctaaatatc   2040
```

5150

```
tgttcataaa aataaaagga aaacatgttt cttcaaattg cataatggaa caaatggcaa   2100
tgtgagtagg ttacatttct gttgttataa tgcgtaaaga tattgaaaat ataatgaaat   2160
aaaagcatct taggttatac catctttata tgctattgcg tttcaatatt taagatttaa   2220
agtgattttt tggtcacagt gttttgttga taaaattttt ttagaattga agtttgaatt   2280
ctaagacttg aaacaacctg atcactgaag ccaactttgt cccagcacat tccttaagtc   2340
ctaattggga aaaaaaaaa                                                 2359
```

<210> 6511
<211> 2160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(1322)
<223> similar to gi217422 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6511
```
tttcgtcggc gacggggcgc tctcgggctg ccggcggggc cgagcgccgc gcgtcccgag     60
catggcaggc tccctgcctc cctgcgtggt ggactgtggc accgggtata ccaagcttgg    120
ctacgcaggc aacactgagc cccagttcat tattccttca tgtattgcca tcagagagtc    180
agcaaaggta gttgaccaag ctcaaaggag agtgttgagg ggagttgatg accttgactt    240
tttcatagga gatgaagcca tcgataaacc tacatatgct acaaagtggc cgatacgaca    300
tggaatcatt gaagactggg atcttatgga aaggttcatg gagcaagtgg tttttaaata    360
tcttcgagct gaacctgagg accattattt tttaatgaca gaacctccac tcaatacacc    420
agaaaacaga gagtatcttg cagaaattat gtttgaatca tttaacgtac caggactcta    480
cattgcagtt caggcagtgc tggccttggc ggcatcttgg acatctcgac aagtgggtga    540
acgtacgtta acggggatag tcattgacag cggagatgga gtcacccatg ttatcccagt    600
ggcagaaggt tatgtaattg gaagctgcat caaacacatc ccgattgcag gtagagatat    660
tacgtatttc attcaacagc tgctaaggga gagggaggtg ggaatccctc ctgagcagtc    720
actggagacc gcaaaagcca ttaaggagaa atactgttac atttgccccg atatagtcaa    780
ggaatttgcc aagtatgatg tggatccccg gaagtggatc aaacagtaca cgggtatcaa    840
tgcgatcaac cagaagaagt ttgttataga cgttggttac gaaagattcc tgggacctga    900
aatattcttt cacccggagt ttgccaaccc agactttatg gagtccatct cagatgttgt    960
tgatgaagta atacagaact gccccatcga tgtgcggcgc ccgctgtata agaatgtcgt   1020
actctcagga ggctccacca tgttcaggga tttcggacgc cgactgcaga gggatttgaa   1080
gagagtggtg gatgctaggc tgaggctcag cgaggagctc agcggcggcg aggatcaagc   1140
cgaagcctgt ggaggtccag gtggtcacgc atcacatgca gcgctacgcc gtgttggttc   1200
ggagggctcc atgctggcct cgactcccga gttctttcag gtctgccaca ccaagaagga   1260
ctatgaagag tacgggccca gcatctgccg ccacaacccc gtctttggag tcatgtccta   1320
gtgtctgcct gaacgcgtcg ttcgatggtg tcacgttggg gaacaagtgt ccttcacaac   1380
ccagagaagg ccgccgttct gtaaatagcg acgtcggtgt tgctgcccag cagcgtgctt   1440
gcattgccgg tgcatgaggc gcggcgcggg cccttcagta aaagccattt atccgtgtgc   1500
cgaccgctgt ctgccagcct cctccttctc ccgccctcct caccctcgct ctccctcctc   1560
ctcctcctcc gagctgctag ctgacaaata caattctgaa ggaatccaaa tgtgactttg   1620
aaaattgtta gagaaaacaa cattaggaaa atgggcgcaa aatcgttagg tcccaggaga   1680
gaatgtgggg gcgcaaaccc ttttcctccc agcctatttt tgtaaataaa atgtttaaac   1740
ttgaaataca aatcgatgtt tatatttcct atcattttgt attttatggt atttggtaca   1800
actggctgat actaagcacg aatagatatt gatgttatgg agtgctgtaa tccaaagttt   1860
```

5151

```
ttaattgtga ggcatgttct gatatgttta taggcaaaca aataaaacag caaactttt    1920
tgccacatgt ttgctagaaa atgattatac tttattggag tgacatgaag tttgaacact    1980
aaacagtaat gtatgagaat tactacagat acatgtatct tttagttttt tttgtttgaa    2040
ctttctggag ctgtttttata gaagatgatg gtttgttgtc ggtgagtgtt ggatgaaata    2100
cttccttgct ctcattgtaa taaaagctgt tagaatattt gtaaatatca aaaaaaaaaa    2160
```

<210> 6512
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1192)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (18)...(779)
<223> similar to gi4545103 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6512
```
gttggggatc cagagccatg tcggacctgc tactactggg cctgattggg ggcctgactc      60
tcttactgct gctgacgctg ctggcctttg ccggggggccc cctgataagt gccgatgtgc     120
cgtgggcagc atcctgagtg aaggtgagga atcgccctcc cctgagctca tcgacctcta     180
ccagaaattt ggcttcaagg tgttctcctt cccggcaccc agccatgtgg tgacagccac     240
cttcccctac accaccattc tgtccatctg gctggctacc cgccgtgtcc atcctgcctt     300
ggacacctac atcaaggagc ggaagctgtg tgcctatcct cggctggaga tctaccagga     360
agaccagatc catttcatgt gcccactggc acggcaggga gacttctatg tgcctgagat     420
gaaggagaca gagtggaaat ggcgggggct tgtggaggcc attgacaccc aggtggatgg     480
cacaggagct gacacaatga gtgacacgag ttctgtaagc ttggaagtga gccctggcag     540
ccgggagact tcagctgcca cactgtcacc tggggcgagc agccgtggct gggatgacgg     600
tgacacccgc agcgagcaca gctacagcga gtcaggtgcc agcggctcct cttttgagga     660
gctggacttg gagggcgagg ggcccttagg ggagtcacgg ctggaccctg ggactgagcc     720
cctggggact accaagtggc tctgggagcc cactgcccct gagaagggca aggagtaacc     780
catggcctgc accctcctgc agtgcagttg ctgaggaact gagcagactc tccagcagac     840
tctccagccc tcttcctcct tcctctgggg gaggagggt tcctgaggga cctgacttcc      900
cctgctccag gcctcttgct aagccttctc ctcactgccc tttaggctcc cagggccaga     960
ggagccaggg actattttct gcaccagccc ccagggctgc cgcccctgtt gtgtcttttt    1020
ttcagactca cagtggagct tccaggaccc agaataaagc caatgattta cttgtttcac    1080
ctggnnnnnn nnnnnnnngg ggggccgtt ttaaaggatc cttggggggg ccaaagctta    1140
cgggggcagg caacggaata gttttttcct tatagggagc cgaattatac c            1191
```

<210> 6513
<211> 3892
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(2914)
<223> similar to gi5262588 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters


<400> 6513
ttcacagatg cactgctcag gcctggcctg gcatcctgac atagccaccc agttagtgct        60
gtgctcagag gatgatcgac ttcccgtgat tcagctgtgg gacttgcgct ttgcctcctc       120
gcccttgaag gtgctggaga gccacagcag ggggatcttg tcagtgtcat ggagccaggc       180
tgatgctgag ctgctgctca ctagtgctaa ggacagccag atcttgtgcc ggaacctggg       240
gagcagtgag gtggtatata agctaccaac acagagcagc tggtgctttg atgtgcagtg       300
gtgccctcgg gacccttcag tgttctctgc tgcctccttc aacggctgga tcagtttgta       360
ctctgtgatg ggtaggagct gggaagtcca gcatatgaga caggctgaca agatctcctc       420
ttccttcagc aaaggccagc ctctcccacc actgcaggtg ccagagcaag tggcacaagc       480
accactgata cctcccctga aaaaaccccc caaatggatt agaagaccaa caggtgtttc       540
atttgctttt ggagggaagc tggttacttt tggcctcccc agcacccctg cccatctggt       600
gccacagcct tgcccccgcc tagtcttcat cagtcaagtc accacagaat ctgaattcct       660
gatgcgatca gctgagctgc aggaggcctt gggatcagga aatctactga attactgtca       720
gaacaagagc cagcaagctt tactgcaaag tgaaaagatg ctgtggcagt tcctgaaggt       780
gaccttagag caagactcca gaatgaaatt cctaaagctt ttaggataca gtaaagatga       840
gcttcagaag aaggtggcca catggttgaa gagtgacgtg gggctaggtg agagtcctca       900
gcccaaggga aatgacctca acagtgacag acaacaggcc ttctgcagcc aggcctccaa       960
acacaccaca aaggaagcct ctgcttcctc agccttcttt gatgagctgg tccctcagaa      1020
catgactcct tgggagatcc ccatcacaaa agatattgat ggactcctaa gccaggctct      1080
cctgcttggg gaactgggtc cggccgtgga gctgtgtctg aaggaggagc gctttgctga      1140
tgccattatc ctggcccagg ctgggggtac agatctgctg aagcaaacac aggagcgcta      1200
cttggccaag aagaaaacca aaatctcctc gcttctagcc tgtgttgtgc aaaagaattg      1260
gaaggatgtg gtgtgtacct gtagcctgaa gaactggaga gaggcactgg ctttgctact      1320
gacatactca ggcacagaga aatttcccga gctctgtgac atgctgggaa ctcgcatgga      1380
acaggagggc agcagggcac taacctccga agccagactc tgttatgtgt gctcagggag      1440
tgtggagcgg ctggtggagt gctgggcaaa atgccaccag gctttgtccc ccatggctct      1500
gcaggacctg atggagaagg tgatggttct taacaggagc ttggagcaac tgcggggtcc      1560
tcatggggtg agcccaggcc ctgccacaac ctacagggtc actcagtatg ccaacctcct      1620
ggcagcccag ggcagcctgg ccactgccat gagctttcta cccagggact gtgctcagcc      1680
accagttcag cagctaagag atcggctttt tcatgctcaa ggttctgctg tcttgggcca      1740
acagtctccc cctttcccct tcccccggat tgttgtggga gttaccctcc actctaaaga      1800
gacatcatct tacagattgg gatccccagc cttctcacca ggtcccaact ccatctccaa      1860
ggccaagggt tttcacccct cagtcatcac cagcgatgcc cttggcacct tcccatccta      1920
gcccttatca gggtcccagg acacagaata taagtgacta cagggcacct gggccccagg      1980
ccatccagcc tttgcctttg agccctgggg taaggcctgc ttcatctcag ccacagctat      2040
taggagggca aagggtgcaa gttcctaacc cggtgggatt ccctgggaca tggcctcttc      2100
ctggttcccc tctacccatg gcatgcccag gcatcatgcg acctggctct acctccctgc      2160
ctgagactcc tagactgttc cctctgcttc ctctgagacc actaggtccc ggccgcatgg      2220
tctcccacac cccagcccct cctgcaagct tccctgtgcc ataccttcca ggggacccag      2280
gtgccccatg ctctagtgtc ctcccaacca ctggcatctt gactcctcac ccaggacctc      2340
aagattcctg gaaagaagcc ccagccccca ggggaaacct ccagaggaac aagctgccag      2400
agacatttat gcccccagca ccaattactg ctccagttat gagcctcacc cctgagctac      2460
aagggattct tccctcacag ccccctgtct ccagtgtgag tcatgctccc ccaggagttc      2520
caggagaact cagcctgcag cagcttcagc acctgccacc tgagaagatg gaaaggaagg      2580
agctgccccc agagcatcag tccttgaaga gcagctttga ggcgcttctc caacgctgct      2640

```
ccctgtctgc aactgactta aagacaaaaa ggaagctgga agaggcagcc cagcgtctgg    2700
agtatctata tgagaagctc tgtgagggga cactctcacc tcatgtcgtg gctgggctcc    2760
atgaggttgc ccgatgtgtg gatgcaggaa gctttgagca gggccttgca gtgcatgccc    2820
aggtggcggg ctgtagcagc ttcagcgagg tgtccagctt catgcctatc ctgaaggctg    2880
tcctcatcat cgctcataag ctgctggtct aaaccaggca gcctctcttg ctaggaggcc    2940
acttctgctg ttacataact cctccctgca gaagagggga cttctgcaac agattctgtt    3000
tctttttccc gactcttttc cttgctgcca ggtatgtgat gctgtaggct tggctccaaa    3060
ccagctgagt gcctgctttt tactccttta tgtctggcct tctaggatct gtccaagaca    3120
ctctcaggcc tggagggagg gcatagaatc agttcttcac tctccctaat actacactct    3180
gtaaggacct ggggcaggat atcttctccc ccagggatct tctatttaag tggcttctga    3240
gagggtgaac aggattgtta cttttaagcc tacctctgct gtgacccatc atgtgggtct    3300
tttgtttctc ccttctgtgg tttatgagcc tgcccttacc ttttccctgc ctctgacttg    3360
gtatttccag gtccgtattt ctctgtagcc cagggtctgg ggtagagctg actgctgttc    3420
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tttggcgctg ttaaaatgga atttctcatc tgccggcatt attaagggtg ggctaggttg    3540
gatggaaggt gaaagggatg aactgccttt tgctggaagc tgtcttaggc tgtgagacag    3600
gagcagggga accacagcct atggggaact gcccttgact ccacctatgt tggagcctta    3660
gcccaaggcc attccttctg tgatgataaa gcccagttct ggaattggag ccatattaag    3720
gaatgattct cttccagcgc tgctcctcaa gggttggggg tccttctccc tcgcagccac    3780
cacatgtctc agggctacct tctccgattg gatttgcatt tgtggcactg tctttgatgc    3840
agtgatgtac ttaatggtgc aataaagctg cttcgatttg gtaaaaaaaa aa          3892
```

<210> 6514
<211> 2652
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (338)...(1092)
<223> similar to gi1280387 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6514
```
tttcgtgcgc catgtgaggg ggctcggggg ccgcggggg ccgggcgctc cccgccggag     60
atgaggaaac tgaggctcag agaggtcaca tggcttgctc gaggccccc agccagtgtg    120
aacccacatc cctgccccca gggccacctg caggacgccg acacctaccc ctcagcagac   180
gccggagaga aatgagtagc aacaaagagc agcggtcagc agtgttcgtg atcctctttg   240
ccctcatcac catcctcatc ctctacagct ccaacagtgc caatgaggtc ttccattacg   300
gctccctgcg gggccgtagc cgccgacctg tcaacctcaa gaagtggagc atcactgacg   360
gctatgtccc cattctcggc aacaagacac tgccctctcg gtgccaccag tgtgtgattg   420
tcagcagctc cagccacctg ctgggcacca agctgggccc tgagatcgag cgggctgagt   480
gtacaatccg catgaatgat gcacccacca ctggctactc agctgatgtg ggcaacaaga   540
ccacctaccg cgtcgtggcc cattccagtg tgttccgcgt gctgaggagg ccccaggagt   600
ttgtcaaccg gacccctgaa accgtgttca tcttctgggg gcccccgagc aagatgcaga   660
agccccaggg cagcctcgtg cgtgtgatcc agcgagcggg cctggtgttc cccaacatgg   720
aagcatatgc cgtctctccc ggccgcatgc ggcaatttga cgacctcttc cggggtgaga   780
cgggcaagga cagggagaag tctcattcgt ggttgagcac aggctggttt accatggtga   840
tcgcggtgga gttgtgtgac cacgtgcatg tctatggcat ggtcccccccc aactactgca   900
gccagcggcc ccgcctccag cgcatgccct accactacta cgagcccaag gggccggacg   960
```

```
aatgtgtcac ctacatccag aatgagcaca gtcgcaaggg caaccaccac cgcttcatca    1020
ccgagaaaag ggtcttctca tcgtgggccc agctgtatgg catcaccttc tcccacccct    1080
cctggaccta ggccacccag cctgtgggac ctcaggaggg tcagaggaga agcagcctcc    1140
gcccagccgc taggccaggg accatcttct ggccaatcaa ggcttgctgg agtgtctccc    1200
agccaatcag ggccttgagg aggatgtatc ctccagccaa tcagggcctg gggaatctgt    1260
tggcgaatca gggatttggg agtctatgtg gttaatcagg ggtgtctttc ttgtgcagtc    1320
agggtctgcg cacagtcaat cagggtagag ggggtatttc tgagtcaatc tgaggctaag    1380
gacatgtcct ttcccatgag gccttggttc agagccccag gaatggaccc cccaatcact    1440
ccccactctg ctgggataat ggggtcctgt cccaaggagc tgggaacttg gtgttgcccc    1500
ctcaatttcc agcaccagaa agagagattg tgtgggggta gaagctgtct ggaggcccgg    1560
ccagagaatt tgtggggttg tggaggttgt gggggcggtg gggaggtccc agaggtggga    1620
ggctggcatc caggtcttgg ctctgccctg agaccttgga caaacccttc cccctctctg    1680
ggcacccttc tgcccacacc agtttccagt gcggagtctg agacccttc cacctcccct     1740
acaagtgccc tcgggtctgt cctccccgtc tggaccctcc cagccactat cccttgctgg    1800
aaggctcagc tctttggggg gtctggggtg acctccccac ctcctggaaa actttagggt    1860
attttttgcgc aaactccttc agggttgggg gactctgaag gaaacgggac aaaaccttaa   1920
gctgttttct tagcccctca gccagctgcc attagcttgg ctcttaaagg gccaggcctc    1980
cttttctgcc ctctagcagg gaggttttcc aactgttgga ggcgcctttg gggctgcccc    2040
tttgtctgga gtcactgggg gcttccgagg gtctccctcg accctctgtc gtcctgggat    2100
ggctgtcggg agctgtatca cctgggttct gtccctggc tctgtatcag gcactttatt     2160
aaagctgggc ctcagtgggg tgtgtttgtc tcctgctctt ctggagcctg gaaggaaagg    2220
gcttcaggag gaggctgtga ggctggaggg accagatgga ggaggccagc agctagccat    2280
tgcacactgg ggtgatgggt ggggcggtg actgccccag acttggtttt gtaatgattt      2340
gtacaggaat aaacacacct acgctccggc ttcgtgtcct gtgtcgcctg ggtcgagcac    2400
agccttctgg tccagcgctg catgcggcct caggaccacg tcttccggtt gggggctccc    2460
agtaaagcga tcctcagctt cttcagcagc cagtggccag tgagagcact gacacggctc    2520
ccgggacctc ggcaggatgg aagagaagct gaagaaaacc aagatcatct ttgtggtggg    2580
tgggcctggc tcaaggaagg gcacccagtg tgagaagatc gtgcagaagt atggctacac    2640
ccacctctcc ac                                                         2652
```

<210> 6515
<211> 2123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2124)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (85)...(1943)
<223> similar to gi3688394 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6515
```
aggtaccgcg ccggaattcc cggggacggt cgcaaggatt acattcgcct gacccggccc     60
ggcttgaccc tgcccgggcg cgccatgttc gcgcgtgggt cccggaggcg ccgctccggg    120
cgtgcgcctc cagaggcaga ggacccagac cggggccagc cctgcaactc ctgtagggag    180
```

5155

```
cagtgccctg gcttcctgct ccacggctgg agaaagatct gccagcattg caaatgcccg    240
cgggaggagc atgcagtgca cgcggtgcct gtggacctgg aacgcatcat gtgtcggcta    300
atctcggact tccagcgcca ctccatctcc gacgacgact caggctgtgc atcggaggag    360
tatgcctggg tgcccccagg ccttaagccg gagcaggtat atcaatttt cagctgcctc     420
ccagaggaca aggtccccta cgtcaacagt cctggggaga aatacaggat caagcagctg    480
ctgcaccagc tgcccccaca cgacagtgag gcacagtact gcacagcact tggaagaagg    540
aggaaaagaa agagctccga gcctttagcc agcagcggaa gcgggagaat cttggggcct    600
tggcatcgtg cgcatcttcc cggtgaccat cacttggggc catcttgtga ggagtgcgga    660
aagcagattg gaggtgggga catcgcagtg ttttgccagc cgtgcaagcc ttgggttgct    720
gnttggacaa ccaagttgct ttcgtgtgta ccacgtgcca ggaactgctg gttgacctca    780
tctacttcta ccatgttggc aaggtctact gcgggcgtca ccatgccgaa tgcctgcgtc    840
cacgctgcca agcctgtgac gagatcatct tctcccctga gtgcacggag ctgagggcc     900
gccactggca catggatcac ttctgctgct ttgagtgtga agcttcacta ggagggcagc    960
gctatgtcat gcgtcagagc cgcccccact gctgcgcctg ctacgaggcc cgccacgcgg   1020
agtactgtga tggctgtggg gagcacatcg gcctggacca aggccagatg gcttacgagg   1080
gccagcactg gcatgcctca gaccgctgct tctgctgtag tcgctgtggg cgggccctgc   1140
tgggccgccc attcctgcca cgccgaggcc taatcttctg ctctcgagcc tgcagccttg   1200
ggtccgagcc cacagctcca gggccgagcc gccgcagctg gagtgccggc cctgtcacag   1260
ccccacttgc agcctccaca gcctctttct ctgctgtgaa gggggcatca gagaccacca   1320
ccaaaggcac cagcacagag ttagcgccag ctacaggccc tgaggagccc tcccgctttc   1380
tgagaggggc tccccaccgc cactccatgc cggaactggg gctccgcagt gtccccgagc   1440
cgcccccaga gtcccccggc cagcctaacc tgcgcccaga tgatagtgcc ttcggtcgtc   1500
agagcacccc acgcgtcagc ttccgcgacc ctctggtgtc tgaaggaggc ccgcgccgga   1560
ccctgagtgc accccggcc cagcgccgca ggccacgcag tcccccaccc agggccccca   1620
gccgtcgccg ccaccatcat cataatcacc atcaccatca caaccgccac ccaagcagac   1680
gtcgccacta tcaatgtgac gcgggatcag ggtcagactc ggaatcttgc tccagctcgc   1740
cctccagttc cagttccgaa tcatcagagg atgatggctt cttcctagga gagcgcatcc   1800
ctctgccccc gcatttgtgc aggcccatgc ctgctcagga cactgcaatg gagaccttca   1860
actccccatc tttatcgctc cccagggact ctcgcgcagg gatgcctcgt caggcccgag   1920
acaagaactg catcgtggct tgaaggcagg ccgtcctgga ggggctcca ttctccagtc    1980
agagtagatg atgaggccca tgcccctcac ccccacgccc cgccctaca acctaagtca    2040
taaatcctct tcctccctcc tttatcagat tggttctatt tttggttctg gtttagagac    2100
ttggtctacc ctattggcca ggc                                          2123
```

<210> 6516
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5156

<400> 6516
```
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag    60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc   120
cctgtgggtg gggtgggggc tggaacctat gaacattctg caggggccac tgacttctcc   180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg   240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg   300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt   360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac   420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg   480
aggggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa   540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct   600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag   660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt   720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac   780
cgcnctgact aatgtcatca gtgnntcaat tnncccccct cccctcg               827
```

<210> 6517
<211> 6333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6093)...(4979)
<223> similar to gi4929591 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6517
```
tttttttttt gttctttaaa gcactttatt aatgaaagtt cggaaaccta aaaattgaac    60
agtagtttaa taaaatgtgg cacatatgat ggaatatcat gcagccatta agagatgtag   120
aaatatactt gacacagcaa gacagtcatg gtattgttga gtgaaaaaaa gttacaaaac   180
agtatgtaca ctttgatccc attaaaaata tctataaatg cacagaaaag tctggaaggc   240
catatactta aataacagtg gttctccctg gatgatggaa ttatcagtga tttttctttc   300
tcactgaatc ttttttcttt ttgccaacag ggctatgact tgtattataa aaaagcatta   360
acaattcttt aaaaagtgtc ctttgaagta agaatgagag cagaacttag caatctaaga   420
ggcacaggga tgtacacatg gtttctgata ctgtttaac ggtttgtcaa ggtgttttga   480
tgttagtcac caattaaaag gcactgtgtt gagtgaaaac gtggatggtg gtagtgctta   540
ctttagacta agcaatccat tcctagaaac cttccacagc aaacaagtac tggcattcta   600
agcaatactt cccactatga tatccttata ccttcctacc cacttgtaat acagcccaga   660
agtttcccct acatggacag ggcactgttg ttggttaagg gttacagaag gcagagagga   720
ttttttcaagt gatgtcagag aataggcctg aaggtgaaat gaatgttctc ttagttctat   780
tgcagtggtt ctcaagctta gagtgcaaca gtattactca aacagctttt acaacagatt   840
gctgggctcc actctcagag tttgattcag taggtctctg aaaaggctta taaatttgca   900
ttttctttc attcaacaaa aatttattga gttcatacta tgtcctagat cttgtgctaa   960
gagttgggaa tgtaactgcc atcaaagaa ttatagtttt tatctcaggg agcctacatt  1020
ctagagtgac agatatacac taaacaaata aattataaaa ataactataa ttacaatgac  1080
tactgctaga acacaattaa gattagaaga ctcagttttt gtcttaaaat atttaaaaag  1140
ctgtcacatg gaagactgat tccatgagcc cttgaaaaca aaaataagt aaaaatgaag  1200
gtagaaagtt cttgaaaata gtaatcagca ttttaaacaa gtctccagga gatgccaata  1260
ttgccggtct ggggtctcac actttgccaa tcactgctct actgagtaga catttttct  1320
```

5157

```
ttccttgaga caagagtctt attctatcac ccaggttgga gtgcagtggt gcaatcttgg   1380
ctcactgtag cctctgcctc tggggttcaa gtgattctcc tgcctcagcc tcccgagtag   1440
ctggaattac aggtgcacgc caccatgccc ggctaatttt tatattttca gtagagacag   1500
ggtttcccca tgttggccag gctggtctcg aactcctgac ctcagatgat ccacccgcct   1560
cagcctccaa agtgctggga ttacaggcat gagccacggc acccaggccc tgagtagact   1620
ttctaatgag cgtaatatgg gagaaagggc aggggtggtt gtggaactct ctctccagcg   1680
tttgagactc acatgaggta aaagccactt catcttatct ggaggtcttg aggcaaagtt   1740
ggctataggc taaactatga agctatctct ccattacagc acctcactga agcttaaagt   1800
gctaaatagt agggcaatat ttcagaattt caggtgtttg ggagataggg aaggaatttt   1860
tctggaattc tgtcagcatg gaggtgagtg gggcctctat gggtaaacaa gtctgtgggt   1920
tttttgccttg ccctccattg tcttctccac tccacagttt atcccagaaa tgtttcccca   1980
acactagctt cccagtctca ctttgttctt tgttcagggg gaggataaca ggagactatg   2040
aagatgactc taccccactg gtgatcctgg cctcaggatt tatttcccat gtgacgcaga   2100
gtgaggaggc acattcccat ttttgagacc tcatttcttg caacatcaat ttttctgatt   2160
agcaccataa aaagttttaa caccatgacc gtttaggtta gattactttg aggaaaaagg   2220
tagacacaat ccaatcactt tttttttcat ttatagaaga gcctacaatt attttagttt   2280
ttcattcata tgtgcatcct tcacatgtca ctatactttc agattaagct cagtggcaca   2340
gagcttattt aaacaattct gaactgcacc atgaattaat aggcttccca agcttttct    2400
tccacgccca agaaacttca ggcctttacc tgagtaaaaa ctaaacttga ctttaaaata   2460
agccaaaacc aaaataaaac ccaaacaacc aaaccccatt aaaataaaaa gcaataaacc   2520
taagaacaag catatatatt gtggtggttc tgtggtagac aaacgtacca gaagcctttg   2580
aagcttaaca ttattgaagg tttctgtaca ttactgggta actaaaatca actttcactt   2640
gatggaaagc tgaaagttct gaaaaatgat ttatactgac tgtgggaagg ttaaacctgg   2700
ggtctgattt aaagagggtg gaggatagga ttgatagaga gaaaacagag cccagatgta   2760
aaagaggtat ctctggtgca cagtgatatg caaggcctat agacttggta ggtcaggatg   2820
ctacaggggc taacaagggg aaactgatat ttacaggatg tgtttactat gtgccaagcc   2880
tttccctgaa aggcacctga aatacaagat aacatttgct aatcctcaca accaccctat   2940
ggtgtcataa ttattgtcct cattttactg gtaaggaaaa ggcagttata catctcattt   3000
gaagcttaaa gagcacaata tgtgaggaag cctggatttg aacccaggac catttcactc   3060
cattaccgat attctttccc ctgtattact acatttccca taaacctaat tcatagttgc   3120
tgtttaagtc gatctgaagt tttggtatga tctttcaaag cctaaatctg gacttataaa   3180
acacaataga tggtactcta ggctgtagaa cttcctttct gaggggagag aaaatttcat   3240
ttacttggtt ttacagaaaa ctgaccagct tgagcagctt ttcagggttt ctttaagaat   3300
atggcaattg agagtgagtc aaaacatctt gtacaactat aaaactgcag aagaatttgt   3360
ctcatggcac agaaataaaa gggtaactac tacttttaaa gtttagactg tgagttaaat   3420
tgtcaacatg tttaccaagt tcttattagg agctcttaac acaaaatttt aaaacggtgt   3480
ttaagtattc attttttaa aagtaccaaa aagtatcatt ttaatagctt aacattccct   3540
caataaatga actatacttt tgtacttcat gcttaagtta gagtaaattg ctttagttgt   3600
cagaatgtgc tatgctatct tggttacaca tcttttatc tggaacagtt cttccccaga   3660
ccctctctca ctcccaaaac tggagttaca tgactcccaa atacagtacc ttgtatttc    3720
cccatcacac cacgaatcct actataggat aattgcttaa ttttctgtat cctttaatgg   3780
tctttaagct ctgcaggggc aagaactgtg tgcatattgt tcaggacagt atcccagtt    3840
gaccagcaca gtatctggcc ctcaacaaat gtttgttgaa tgaatgaatt agaacagaag   3900
tcttaacatg gaaacaatga tttatagcaa tggccccaac agcaattttc tagcttccaa   3960
tgtgtcacta ataatttcat tagtatgtgt ttcataagca gagatcctca tcaagatagc   4020
ctgtgttcat taataaattt tcaatgtttt aatagtaagc tcagagtgac ccaatttatt   4080
ttgttcgtat acaatttata atgtagttgc attattccgt atttgtatac aaatctgctg   4140
ttcaataaga acacattctc tttactgtac cacagtacag taaatggatc caatcccaat   4200
tatgcattaa attgtccaa ttgaataatc ttaaaaactt tatgtttaat gaagtaaatt    4260
tgtcctagat tttctagaac cttaactaca aatttatcag agaaatacgg tattgctttt   4320
caagaactag ttgttcttaa atttaaaaga aaccattcag tagtgtttaa aaaaccaaac   4380
aactctgaaa ataacccatc aaaacataat attaaaatca tttgatttct gttgggaaaa   4440
ccagggtaaa catagtttaa atgcgttttt gtctatggaa agcattcagg aaaattctac   4500
ttttcacaaa agaggtttat atcctacagc tcttttaag accgaaagtt taaataaat    4560
tttaatttta ttctttggct attatttata cctaataaat gagtcgctga tatcaattca   4620
caatagattt aatttttacat aaaaggaaaa ggcttgctgt taatgaaaaa tcccagtaga   4680
aaacagttct gctttaagtt gaggctcaaa agtagaagct gcttattagt gaaacctcaa   4740
```

```
taaaaagaga attttcgtaa gaaaacattc ttcggcatga aagctctaac ataaattctg     4800
taatgaaata tttaccatgc aactttattg gcagaaaggc cagtttctga tggctggtat     4860
tttcagtctc ttaacacatt aacatgggaa ggatacttaa cctgctttat ttagagttaa     4920
ttgtatataa atacaatgtc atgatgggca acctttccat aagtccacct acttaattgg     4980
agcagttcta agtaggtaat tgggcacctt gcccttctgg gtttcccctt tcccccatta     5040
gccagtctga atcccatccc aacaacactg aacacagtga tcaccctcaa ctgcccagaa     5100
gtgaataatt ccagtactgt ttgctgccat ccataaatcc ataagagaac cccggccctt     5160
tcctgctgcc cactacactc ccttaaggtc actgaggttg gaaggagagg tgattactag     5220
gccacttgtt gaagccatgg cagaagaacc aatcgcattt ggtaaaactg atggtacagg     5280
tgtcacagaa gtctgattgt tgttactaag ataattggat ggaaaacttc ccagttgttt     5340
ctggaggtcc aacatatact ggtaacactg tgcatagtaa gtcatctggg cttctacaaa     5400
gtcattcaga cagcgaaggt gatgggcatg tgtactgctg attccctcta gcagaagtct     5460
ggtaatctct gcttgacgat caaattcact ttgagttatt cttaattcct gttcagatga     5520
atttctagtt tctgcagctt ttgccttttt tagtctcgtt tttgcagcat ccaaatccag     5580
tctcttattt tgcaatagtt tcctttcttt agcaattgtt ttgtaatctc cttctataaa     5640
gtttcttaaa ggagtaagaa aatttaaggc tgacgtttga atcagttctc tgtctgctgt     5700
tccaattctt ttttgggttt ctcccacatt taataagggc attaccataa gctgttcctg     5760
ggccaaactc agtccctgca tcaatcatat attgtcccaa aagttctggg ttgtttatac     5820
gacttggagc ttttctatcc agtttctcat aaacaaattc ttctatcctg gcatttggat     5880
ttggctgcaa taacacttca gtttgtttca ttattttttc tgtccatatt ttggtacatt     5940
cagctttgct aaggaggttc tctaagtgag catccaattc tgtcttctca gcctggccaa     6000
gcttttcttc tgtgaactgc acggcgcgac tgaggaaggt gcctgcgtcg gccgccagct     6060
tcttcacgtt gaagtccatg atattcatcc taggcggcag ccgggcggag ccggccgacc     6120
tagcggcggc gaggcggagg tgccgcggcc gggctagggc gcagggctag agcggcgagg     6180
gcagacgtgg taggtggaag ggagggcgcc agccccgcag ccgcagctgt cgtttccgtg     6240
aacggggagg atgaaggcgg ggcgagggag gagaacaagc gcgcggcggc agcgccaagg     6300
atgggtcagt cggctcggag aacggccgct aac                                   6333
```

<210> 6518
<211> 5245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)...(3392)
<223> similar to gi3043676 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6518
```
gaattcccgg gtcgacgatt tcgtgccgct cctcctttga agaggttttg cgtctctttc      60
cgccggtggc gtcggcgctc acgcagggc gggtcccggt agcgccaggc ggtgcagggc     120
gggaagggga ttcgtggcga cggcggcggc agggacagca ggagcagtgg tgctgtcagc     180
gcggccgtcg gagacatggg agacccgggg tcggagataa tagaatctgt ccctccagct     240
ggccctgagg catctgagtc aacaacggat gaaaatgaag acgacattca gtttgtcagt     300
gaaggaccat tacgacctgt tcttgaatac attgatctgg tcagcagtga tgatgaagag     360
cctagcacct cttatactga tgagaatatt aaacgtaaag accatattga ttatcagaag     420
gataaagttg cttttaactct ggctcgtcta gcccgccatg ttgaagtgga gaaacagcag     480
aaagaagaga agaatagagc attcagagaa aaaattgatt ttcagcatgc tcatgggtta     540
caagaattgg aatttattcg aggacattct gatacagaag cagcaagact gtgtgtggac     600
```

5159

```
cagtggctaa aaatgccagg actcaaaaca ggcacaatta attgtggaac aaaaagttca    660
ttccgaagag gaggccacac gtgggtgtct gggaaaccaa ttttatgtcc tataatgcac    720
tgtaacaagg agtttgacaa tgggcacctt ctcttaggac atttgaaaag gttcgatcac    780
tctccatgtg atccaacaat tacactacat ggacctttct tcagctcctt tgcttgtgta    840
gtatgttata aaaaatttgt tactcaacaa caatatagag atcacctttt tgataaggaa    900
gccacagatg atggacataa caacaacctt cttcctcaga ttattcagtg ttttgcatgt    960
ccaaattgct tccttctttt tagcagaaag gaggagtgtt caaagcatat gtctggaaag   1020
aatcatttcc atcagagttt caaactgggt gataacaaag gaattgcaca tccaatatct   1080
ttcccatctt ttgcaaagaa acttttgatc tctctgtgca aagatgttcc ctttcaagtt   1140
aagtgtgtgg cctgccacaa gacactgcgt tcccacatgg agctcactgc ccatttcaga   1200
gttcattgtc gaaatgctgg acctgtagct gtagctgaga agagcattac ccaggttgca   1260
gagaaattca tattaagagg ttattgtcca gattgcaatc aagtctttgt ggatgaaacc   1320
agcacccaaa atcataagca gaattcagga cacaaagtcc gagtcattaa ctcagtggaa   1380
gaatcagtct tactctattg ccacagcagc gaagggaaca aggatccttc ttctgacttg   1440
catttattgt tggatcaatc aaaatttttca tcacttaaaa gaaccatgtc tattaaagaa   1500
tctagctcac tggagtgcat tgccattcca aaaaagaag atgaatttaa aagataaaag   1560
ccatgaaggt gttgcttgtg tccagaaaga aaaatcagta gttaaaacct ggttctgtga   1620
atgcaatcag cgattcccaa gtgaagatgc agtagaaaag catgttttct cagcaaacac   1680
aatgggttat aaatgtgtgg tctgtggaaa ggtatgtgat gattcagggg tcattcgttt   1740
acacatgagc cggattcacg gaggggcaca tttaaataac tttcttttct ggtgtcggac   1800
atgcaaaaag gagttaacaa ggaaagatac tatcatggca catgtgactg aatttcataa   1860
tggacacaga tatttttatg agatggatga ggtagaaggt gaaactttgc catcatcctc   1920
tacaacattg gataatttga ctgctaacaa gccttcatca gctattactg ttattgatca   1980
ttccccggca aatagttctc cgaggggtaa atggcaatgc cggatttgtg aagatatgtt   2040
tgattcccag gaatatgtaa aacagcactg catgtctttg gcaagccaca agtttcatag   2100
atacagctgt gctcactgca gaaagccttt tcataagata gaaacattgt accgacattg   2160
ccaagatgag catgacaatg agataaagat taaatacttc tgtgggcttt gtgatcttat   2220
ctttaatgtg gaagaagcat ttctgagtca ttatgaggag caccacagca tagattatgt   2280
atttgtgtca gaaaaaactg aaacttcaat taaaaccgaa gatgattttc cagtaataga   2340
gaccagtaac cagttaactt gtggttgccg tgagagttac atctgtaaag tcaacagaaa   2400
agaagattat agcagatgtc tccaaatcat gctggataaa ggaaaactgt ggtttcgctg   2460
cagtttatgt tcggcaacag cacagaattt aaccgacatg aacactcata tccatcaagt   2520
gcacaaagaa aagagtgatg aggaggagca gcagtatgta atcaagtgtg cacctgcac   2580
caaagcattt catgatcctg agagtgcaca gcagcatttc catagaaaac attgcttctt   2640
acagaaaccc agtgtggctc attttggatc tgaaaaatcc aaacctgtta caagttttac   2700
tgctagtgcc tcacatacag agagaaaact gaaacaggca ataaactatt ccaaaaagtt   2760
tagaacatgg agaaaggatt tgagaatgaa cctaagctat ccgaatatag aagaagaaat   2820
tgttgagctt ccagatttgg attacctgcg aaccatgact catatagtct ttgtagattt   2880
tgataactgg tcaaactttt ttggtcatct accagggcat ctaaaccaag gaacatttat   2940
ttggggcttt caaggaggaa acaccaattg gaagcctccg ctcaactgta agattatataa   3000
ctacctgaac aggattggat gcttcttcct tcatcctcgc tgtagtaaaa gaaaagatgc   3060
tgctgatttt gccatatgta tgcatgcgtg gccgtctaga tgaacaacta cccaagcaaa   3120
ttcctttcac catcctctca ggagatcaag gttttctgga gctagagaat caatttaaga   3180
agactcagag gccagcttca tatacttaaa ccctcaccac ttaggaggga gattatgatg   3240
tgtgccttgt taaatagcat atctgatacc accaaagaat gtgacagtga tgataacatg   3300
ggtgccaaaa atacttcaat aggagaagaa tttatatcca cagaagatgt ggaattagaa   3360
gaagctatta gaagaagtct tgaggaaatg taattaaaga tattaccaca caacatcaag   3420
tggccttgaa gagactgaga taacgaattc ttgagtttgt tttctaaagg agaccagaaa   3480
tccactatta caaatgtatt tgaaaacatg tttttgcttt catatgttca aaatctgatc   3540
tttgttttgt attttgtgc taatgtgcaa acatgtacag aagaaataga atacatgttc   3600
atgcaaatat aaattatgta ttctaatata ggtgtaacag tttcccagtt aactttgaat   3660
ttatatattt agatttaaag gattaaaaaa aaaggaaagc tcttgacagt tgtttcccaa   3720
atagcattag ttctttaatt ttatttgtac tgtacaaatg atgctagttt attttttag    3780
cagtgaaaat gaatataaaa aaaggtgaca taggtcaagt tttccataaa ttctacttct   3840
catgtggcac tattatataa tacctttgag atctttggtt tacgtttatt aagaagaggg   3900
taatggaaac tgatcatgga aacatttaaa attttatcag caatgttctt tgtgggtgcc   3960
atgcatatgt aaattattgc tttaattaga gcagcacatt gctaaaataa aaaatacacc   4020
```

5160

```
ttaattttta agaaataatt taaatgaaac aatttcccat tcccttttac ctgcttagac   4080
tttttatgtg acttgtatgg tctcctggtt aaagggaatg gtgtcagaat atttgcataa   4140
aattattttt cataacagtc ctttttttata tattggtgta aacataatat tcttcaagaa   4200
ataatgttga aagcctactc aggaataatc ttccttaact ctttaaattt ttatttcatg   4260
tgaagtgttt tcagtttagt tattcactga attgtcagtt tccttcattt ggtattacat   4320
atttaattct taaatattga ggccccattg tgagtaataa aaaatacgac ataagtagaa   4380
gactaagaag ggcttgtcat attatctttg tgtatatgct tcatgttatt taaccagaaa   4440
tgtcttatct ctaaaaattt ttagtagtaa ttatttacca aacttaaaaa catttctata   4500
aatataaagc ttttctttat atttaagaca aaatataaag gctagaattt ggttccttct   4560
ctgtaacact aaatatttta gtgtgaaatt gaattttttt attactatag tcttttcaat   4620
ctataatttg tgttttaat ttcttgatat gtcacttctg ttcctccctg cttgcatttt    4680
ttaaaaacta gacattgtgg cttgagaatt tatcaatcat ctttccgaaa tgaccacatt   4740
gtgctttag tttgtatgtt taagtggtca agcaaggctc taggaggtag tcactgagct    4800
ggaccttaaa cacatctgca ggagctcaca aaatgggagc aaaagaggca ttccagaaag   4860
aagagtagtt aagcagatgt gggggcaggg caagaggaga cagcaccttg ttgccagaga   4920
ttctacacaa aggtgtgatg gacactgatg ctctattaag aagctttgt ggtgtgtgtg    4980
gtagagaata attaaggctt ctgataagac aggaaaggga tatttcatca tgactgttaa   5040
gaaaaggtaa ctgggttgtt taatgtttta attgataatt gtcactgatc gtatttctac   5100
ttgttaaata attaaaaatc atcttaaaat tcatactttg actttaattt agacacaagg   5160
agatgtaatc gctgtgtaac atcagagaaa gctatatgga ttatcgtcag aagtaaatgt   5220
ttcctaacca ttgacaaaaa aaaaa                                         5245
```

<210> 6519
<211> 1719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1266)...(107)
<223> similar to gi495871 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6519
```
ttttttttt tatagagttc attcaacaag agtttattgg ggttgtactg tgagctcggc   60
cagagctgtc ttgagtggcg ggtgtggacg gatctggtcc gggatcattt catggggcca   120
tggtctgtta catagctgac ttctaggctc cggctggcgt tgagcagagt ccgggagtcc   180
tcgtggctga ccacacacgt gtaggtggct ggctgagggc tgggcggggc tgggacacgc   240
agcacactcc agggcccaga acgtggtgct cctggggctt tggaagggg cgtgcggggg    300
caaacccaga agtgttcacc tcaccgtggt cctccagcca catcaggagg atgttggggg   360
gcgagaagcc agacacctca cacaggagcc acgaggctcg cctcgggagg gtcagacgag   420
gccagcaggt tcagggaaag cttgacgggt gcctgcgcag cgggttctct cagcgccatc   480
aacctctggg gtgggaggct gggatggttc agtgtgcagg tgacggaggt ccccgcgttc   540
cacaaggacc tgggcagggt cagacggctg tgctggctct gggagccgtt gctgtgccgc   600
tccagcagcc cttcctccac gcccctgtg gggaccttcc cagccacctc ccaggtcagg    660
tgagcatcct tcaggtcact gcccaccacg aagcaggtga aggtggcttt gtcccggagc   720
cacaggtcct gcactgcagg ggttagcagg tagacgccaa gaggctgggt gtggctcgga   780
cactctggtg tctttgtctc tctctcttct tgttcctctt tctccttctc cttcttcttc   840
tcttctcctc ctcttcctgt gttacgggtg gtggctgggg ctgtggttgc cttggcgagg   900
ctgccctctg cttggggttg tgcagtgggc actgaggagg cctgtgcctt tggagactct   960
```
```

                                     5161
```

```
ggccagcgga agatctcctt cttactcttg ctggcggtgt gctggaccac gcatttgtac      1020
tcgccttggc gccactgctg gaggggggtg gagagctggc tgcttgtcat gtagtagctg      1080
tcccgtcttt gtatctcagg gaaggttctc tggcgcctgg ctctgtgtcc ccatgtacca      1140
ggtgacagtc aacggacgtt gggtggtacc cagttatcaa gcatgccagg accacagggc      1200
tgttatcctt tgggtgtctg caccctgata tgatggggaa cacatccgga gccttggtgg      1260
gtgctgaaga gacggtgacc attgtccctt ggccccagat atcaaaagca tagtcaccgt      1320
gatctgttgc acagtaatac acggccgtgt cctcagatct caggctgctc agctccatgt      1380
aggctgtgtc tgtagatgtg tcctcggtca tggtgactct gccctggaac ttctgtgcgt      1440
agattgtttc accatcttca ggatcaaaag ctcccatcca ctcaagccct tttccaggag      1500
cctgtcgcac ccagtgcatg gataattcag tgaggtgta tccggaaacc ttgcaggaga      1560
ccttcactga ggccccaggc ttcttcacct cagccccaga ctgtaccagc tggacctggg      1620
cgtgggtgcc tgtagctgct gccaccaaga agaggatcct ccaggtgcag tccatggtga      1680
ggtgctgcac tctgggggct tctgtagggg agggatgtg                            1719
```

<210> 6520
<211> 2016
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1788)...(893)
<223> similar to gil946343 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6520
```
actaagaaga caagacagaa gacaaagaat aggtaaaaca ggatgtaaaa gtttatatac        60
aagaatataa tgtttatctg aaatatttac agtgttggtt aaagcaatat ttttacaact       120
tttaaaggta aactactatg tatattacag gtaagctaca atgggtttaa tttgcaaaag       180
ttaagtaaga aatgttttaa acaaggctta aagtactcaa gtcaattata aaatttatat       240
cttttgcctt ttacttgaag aaatcatgct atagaaatgg ttaatgtgct tctaataaat       300
ggaagtattg tagctggaat gtgatacatg taacagttta agttcccatt gaaggtataa       360
aatgatgaat tgttgtaaga cttagacact gagtctcagt ctggagctga tgaagatgtt       420
gagataacag ccagctttat ctcaacaggg tttgtgaccc acaagtttgg gccacagaga       480
aaattgaagc aatttgcatg ttatgacaac ctcagtggga agtgaaaatc agctgactca       540
aaacaacaaa caacaaccaa ccagacccaa gtcacagttg cacctattca aaactagctt       600
taaagtgagc tatttttaaa cttcataaaa atattcatga ttttattagt ttgaatattt       660
ctacaagatt cgggtgggct tttcctttag gtgaaaacag ctatccactc ctgtggcctt       720
ataactcagg aaatgctggg gatgcaaacg tgcaaaggc aggggaagc tgcccaggct       780
gagactggag cagctaggag tgtgcttggg gaacgggagc tgagatcccg gagcagaaat       840
ggtcagccgt gctctggagc aggcctgtcg gagccatcag gatgccggga ctagcactgc       900
agcttgcgga tgctgcggga gatgcgcttg aactctctct gccccttctg ccaccgcttc       960
accgaggtga tcaccagctc cccaccctgt ttctgtccca tgaccagata gggcgcgttg      1020
atgtcgttca tctcctcaca ggtgcactgc aagctgtctt tgagccacag caccgatttc      1080
ttcaggtccc tttcggacac accgttcagc ttgtaaatgg tcttgctctt ggtctccagg      1140
atgattttgg tatctcggtt gatgtaggtt atctccttca cttttatttt cagtgcaaaa      1200
tcatttttac aaagcgtttc cattaatgtc gttgttcatc atcattttta ttttgcagg      1260
cttcacatac cctttggagc ttcctcggtg gctggcaggg aggtgtccgc tgctagcgga      1320
gggggatgca aaggtcgttg tcctggggga aacggtcgca ctcaagcatg tcgggccagg      1380
ggaagccgaa ggcggacatg accggggcgc agcggtcctt cacctgcacg cagagcgagt      1440
```

5162

```
ggcatggctg gatggtctcg tctaggtcat cgaggcagac gggggcgaag agcgagcaca    1500
ggaacttctt ggtgtccggg tggcactgct tcatgaccag cgggatccaa gcgccggcct    1560
gctccagcac ctccttcatg gtctcgtggc ccagcaggtt gggcagccgc atgttctggt    1620
attcgatgcc gtggcacagc tgcaggttgg ccgggatggg cttgcaattg ctgcgcttgt    1680
aggagaagtc gggctggcca ·aagaggaaga gcccgcgcgc cgagcccagg cagcagtgcg    1740
aggcgaggaa gagcagcagc agcgagccag ggccctgcag catcgtgggc gcgcgacccc    1800
gaggggggcag agggagcgga gccggggaag ggcgaggcgg ccggagttcg agcttgtccc    1860
gggcccgctc tcttcgctgg gtgcgactcg gggccccgaa aagctggcac cggcggctgg    1920
ggcgcggaga agcgggacac cgggaggaca cgcgggcgag cgctgcaagc ccgcgcgcag    1980
ctccgggggg ctccgacccg ggggagcaga atgagc                              2016
```

<210> 6521
<211> 4204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4205)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3676)...(1268)
<223> similar to gi31442 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
    <400> 6521
tttttttttt ttgctttttcc tcaacttctt taatctataa aaatttcatg cacacaacct      60
gataaaatac atcagagtca agacatccga tttaagtatt ttaggcatat ttaataaata     120
acttcagtaa atagcactgt aaaaagtgaa ctgttaaaac taaaggcact taaaacaaga     180
atgtgactag tgtgaaacaa gatgggcaac tcaaatggtg agaagtaaac atacagtggt     240
ctgttatggc actaactcaa agtaagactc gcgtaggtga gagctgttgc atagccacag     300
tataacttca catgttcatt aaaaaggcaa attgaccgct aaaacttcaa agaaaaagta     360
ctcataaaaa aagtcttacc ccaaaattgc aaacaaatac attaaaagat tagaagaggt     420
gatagaaagc accagacatt aaacaaaata aaaataataa aataaattca actcaaaagg     480
tccccattca gcaaatactt tgtaaagtat ggcctgtatg taaatagtgc taaatcaagg     540
acttttagc agaaaattgc tcggttcttt tatctaaggc ttgaatttgt aaagtgaagg      600
cataaaagtt accaaacatt aagtaactct taaaatggca cacaggtttt aaagctattg     660
gtttttcctt cctaactctc tgaatttttc ccatggcctt tgtagatcaa ctatttcaaa     720
cgtattttac accagcaact ctcaacatac ttgtctttca gatatgtcat cagtcatgtc     780
taacaggcaa atagcaaaat aacagattta aaacaatcct taactagcta gcaggacatt     840
tactttggat tctgcataac tgcaaactga catatttgta aagctaaaaa tcagttttaa     900
tacatgatta acagaaactc tcatcatgct cattacttta actattgccc tttcaatcgc     960
tatagaaata tcacttaatc caataagctt gatttcaata gtccaggaag aaaaggtcaa    1020
aaaggcacaa tgtgaccttа gctgacaaga ataaccatcc tgtctcaagt cttttgtcag    1080
tccctggcat gaattacaac attattttca aaataataaa acattttaaa aattatacat    1140
attgtacatt ttcaaaacct gcacatgagt aaaaccatgg caatattgcc ctaaagctac    1200
ctaactgtga ctatggaaat tgctactttg cattcagtgt tgtgggattt gcacgggcag    1260
tactcatttt ccctcatact tcggattgac cacagttgtt acggcactct tataaatagg    1320
```

5163

```
attttcaccc gtgtcccatt tggcattcat tttctccttt tcaaatttag caaactccct   1380
tctgtcatga attatcatta aaagcttcca tatcagcagt aatgcaaggc caataagaac   1440
aattccagca accacaccag ctacaattgg aatgatgtct ggaccagtgg gacactctgg   1500
attctccaca acatgaacca tgacctcgtt gttcccattc actgaatacg taaaatagaa   1560
ccaacagtcg tcaacatcct tctccttaca atgggacaca ggatcaggtt ggaccggctg   1620
gggtaatttg tcccgacttt ctaccttggt aatgttaaaa taggaacatt cctgtgtgca   1680
tgtgtctttc ttttctcctt tattgaaggc tctgcactga acacattctt tatgctcagc   1740
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ctcacacaca cgacacttgc aaacaccatt tcctccacaa attaagccat tggatctatc   1980
acagttgaaa ttatcacact cgcagaattt gccagaataa atttcatttg tattatccct   2040
cttcctacaa acacactgtc cggcagacgg cactctccca tggttactgg cagatttctg   2100
gaactggttt tctttcctgg cagtaaagca tccaatgtct tcactgttaa cttcatctgt   2160
gctgcattca caatgtctac caacacgccc ttcattgcac ctgcacgcgc cacactcaaa   2220
tgtcccattt ccttcatgac acttgggact ttcagggatg ccttcgcttt ggcattcaca   2280
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ctcatctcca atggaaatat tggaacattt tcttccattt tcccctgttc cattcacccc   2460
gttcttgcca gtaagattgg taacttatgg ttactccttc tgacaatttg ccgttttcca   2520
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aatttgcaga taatgttcct actgctgact tagggatcaa gtttttcagc tccttgtaaa   2640
caggctgaaa ttcttcagta actgcaaaaa ttgtctgaat attattttca ctcagtttct   2700
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ccaggtgaca ttgtccatca tttggtaaaa caatgccacc aagtttccca tctccagcaa   2820
agtgaaaccc ggcatctgtg gaaaacacca gcagccgtgt aacattcctc cagccaatca   2880
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tgagcttagc tggtgttgtg ctaatgtaag gcatcacagt cttttccaca aatgagccaa   3120
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taccacaaag aaatgtgacc aatgaagtct ttctgtcttt aactcaaaca tgccaatcac   3960
tggaaaaacc cagaaatacc tatgtcactc acaaaaatgc ctctcaaagg aattagaagt   4020
tcagagaaga aactggggaa ggtaaatgct tttctagatt cctcttcctc cacccccct    4080
tgactattaa aagtgttccc aggtcctcct tcagcccgtt tttcactcca caccctcctt   4140
tggtgtttgc atgcacagcc tatagcttca accagcaata gcgtngnntt gtcaaattac   4200
gaaa                                                               4204
```

<210> 6522
<211> 910
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (878)...(263)
<223> similar to gi1196436 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

      <400> 6522
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agagataggg acaggggaca gcccagcgag gctgggtcgg gggtcacccc aggatgttcc   120
aaccacaggg gcagcatctc ctccactcca catgctggcc aagggcacag agctgccgta   180
tcgcctgcca aggggggtggc tcaatgctgc tgccctggtc ctgtatgggc ccggggtgcc   240
gagaacagac agcaagcctc aggcgccggt cctttgagct ttcttgattt cctcagagag   300
cgcctccttc agctctgcgt aggcctggtc caggctgtcg ttaatgatga ccacatcaaa   360
caggccgggc tccttgctgc tctccatgtc ggcctgggca gcagccagcc gcttcaccag   420
gctctcctcg gtttcagtgt tgcgctgccg cagccgctgc tccagcacgt gcagtgaagg   480
cggctgcaca gagatgtaga tgggccgcag atcggtggcc ttgatgttcc gcacaccctg   540
caggtccacg tccagcacac agatgcggtt catggcctgc acggcctgca ccgccacctt   600
gctcgtgcca tacaggttcc ccgagaactc ggcatgctcg atgaagtcgc cggctgctat   660
gtcacgctgc atcacctccc tggttacaaa gtagtaatct ttgccgttct cctcgccggg   720
cctcgggttc ctcgtggtat ccctccacga gagccctgga ctcacgggac acgctgaagc   780
caaagatgcc gctgtgctcc tggagcagcc tcttcagcag ggtgctcttc ccagctcccg   840
aaggcccgct cagcaccaca ggcctggggc ccgacatgcc gtccggtggg gcccggccca   900
gggcggccgc   910

      <210> 6523
      <211> 1330
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (319)...(1191)
      <223> similar to gi4521233 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters

      <400> 6523
tttgttttttc cccactccct gccttcccta caattgtttc tttcacctgt ccctcgccta   60
ctatcggctg cccttgcttt ctctgtgcct gtttataacc tactgctccc ctccctacct   120
taccttactc tttcttcttc cccttacctc tcgctgcccc tatccctgcc ttgcccttcc   180
ctctctttct ctcctcccct tcttcccctc acctctcggt ccctattgcc ttctctactg   240
gtctcctccc ctctctttct ctcccttct ccttccgtcc cctctccctt tctatctccc   300
tcctcctgct ctctttgagt ggctacagca aaccaaacag cccagcagcc cagcagccca   360
gccatgcggc gcctcacagt cgatgacttt gaaatcgggc gtcccctggg caaggggaaa   420
tttgggaatg tgtacctggc tcggctcaag gaaagccatt tcattgtggc cctgaaggtt   480
ctcttcaagt cgcagataga gaaggaagga ctggagcacc agctgcgccg ggaaattgag   540

                           5165

```
atccaggctc atctacaaca ccccaatatc ctgcgcctgt ataactattt ccatgatgca    600
cgccgggtgt acctgattct ggaatatgct ccaagggggtg agctctacaa ggagctgcag    660
aaaagcgaga aattagatga acagcgcaca gccacgataa tagaggagtt ggcagatgcc    720
ctgacctact gccatgacaa gaaagtgatt cacagagata ttaagccaga gaacctgctg    780
ctggggttca ggggtgaggt gaagattgca gattttggct ggtctgtgca cacccccctc    840
cctgaggagg aagacaatgt gtgggacact ggactacttg ccgccagaaa tgattgaggg    900
gagaacatat gatgaaaagg tggatttgtg gtgcattgga gtgctctgct atgagctgct    960
ggtgggatat ccaccctttg agagcgcctc ccacagtgag acttacagac gcatcctcaa   1020
ggtagatgtg aggtttccac tatcaatgcc tctgggggcc cgggacttga tttccaggct   1080
tctcagatac cagcccttgg agagactgcc cctggcccag atcctgaagc accccctgggt   1140
tcaggcccac tcccgaaggg tgctgcctcc ctgtgctcag atggcttcct gagccctgtc   1200
tgcctctgtt cccttttgtgt gtgttcaggg agctctcact ggctctgcca cctcatttgt   1260
ctttattttt ttctctttta agatgtaaga tgctaattaa taaaagctga atcacttcat   1320
accaaaaaaa                                                          1330
```



```
        <210> 6524
        <211> 5115
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (93)...(3614)
        <223> similar to gi2662165 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```



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        <400> 6524
aagacaatgg gaagcccccg tcctccgccc cgtcccggcc cagacccccg cggaggaagc     60
ggagagagtc cacctcggca gaagaggaca tcattgatgg atttgccatg accagctttg    120
tcactttttga agcgctggag aaagatgtag cacttaagcc tcaggaacgt gtggagaaac    180
gccagacgcc cctgaccaag aagaaacgag aagcacttac caatggcttg tcctttcatt    240
caaagaagag cagactcagc cacccacacc actacagctc agatcgagaa aatgaccgca    300
atctctgcca gcaccttggg aagagaaaga aaatgccgaa ggcactcaga cagctcaagc    360
caggacagaa cagctgcagg gacagtgaca gtgaaagtgc cagtggagaa tccaagggct    420
tccaccggag cagctctcgg gaaaggctca gtgatagttc agctccttcc agcttgggaa    480
caggctactt ctgtgacagt gacagtgacc aggaagagaa ggcatcagat gccagctctg    540
aaaaactctt caacactgtt attgtaaaca aagatccgga gttaggtgtt ggcacgctac    600
cagaacatga cagccaggat gcagggccga ttgtccccaa gatatcgggt ctagagagaa    660
gccaggagaa gagccaggac tgttgcaaag agccaatctt tgagcctgtg gtgcttaaag    720
acccctgccc tcaggtcgca cagccaatac cccagccgca gacggagccc caactccgag    780
ctccttctcc ggaccctgac ttggtgcagc gcacagaggc cccacctcaa cccccacctc    840
tgagtacaca gccaccacag ggccctcctg aggcccagct ccagcctgcc ccgcagcctc    900
aggtgcagag gccacccagg ccacagtccc ccacccagct gctccatcag aacctcccac    960
ctgtgcaggc ccacccctct gctcagagcc tctcccagcc attgtcagcc tacaacagca   1020
gtagcttaag cctcaacagt ttaagcagca gcagaagcag cactccagcg aagactcagc   1080
ccgccccacc tcacatctcc caccacccct ctgcctcccc gttcccctc tccctgccca   1140
accacagccc cctgcacagc ttcacaccca ccctccagcc ccccgcacac tcacatcacc   1200
ccaatatgtt tgcccctccc actgctctgc ctcctccacc accactgaca tcaggaagtc   1260
tgcaggtggc cggacacccg gccgggagca cttactcaga gcaagacatc ttgcgacagg   1320
aactgaacac tcgttttttg gcctctcaga gtgctgaccg cggggcttcc ctgggcccctc   1380
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5166
```

```
cgccctacct gcggaccgag ttccatcagc accagcacca gcaccagcac acccaccagc   1440
acacgcacca gcacaccttc acgccgttcc cccacgccat cccacccacc gccatcatgc   1500
cgacgccagc acctcccatg tttgacaaat accctacaaa agttgaccca ttctaccggc   1560
acagtctctt ccattcctat cctcctgcag tgtcgggcat cccccctatg atcccaccca   1620
ctggcccttt tggttcacta caaggagcat ttcagccgaa gacatccaac cctatcgatg   1680
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cctggcagat ttaccaccac caacagaaag tcaagaaaca gatgcagtca gacccacata   1860
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gagccatcca ccacccccat gacctggcac ggccttcaac tttgttctct gccgctggtg   1980
ctgcacaccc aactgggacc ccttttgggc cacctcctca tcacagcaac ttcctcaacc   2040
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acaaggatgg ccccagtgtg cagaacttta gcaaccctca cgaaccctgg aaccggctgc   2220
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cccgggtgcc gtctccctac gtgcggaccc cggtggtgga gagtgccagg cccaacagca   2700
cctcgagccg ggaggccgag ccgcgcaagg gtgagccggc ctacgagaac cccaagaaga   2760
gctccgaggt caaggtgaag gaggagcgga aggaagacca tgacctgcct ccagaggccc   2820
cgcagaccca ccgggcctcg gagccgccgc ctcccaactc ctcgtccagc gtgcacccgg   2880
ggcccctggc ctcgatgccc atgacggtgg gggtgacggg cattcacccc atgaacagca   2940
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tcagccccac cgcgggcaac cagaacggac tcctcaacaa gacccctccg acagcagcgc   3480
tgagcgcacc tccccgctc atctccacgc tggggggccg cccggttctt ttccagaagg    3540
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attatatgtt gagatttttc agatctttta gcccagtcat atgttctcac gtctcctact   3840
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cttcatgagc taatggttca tatatgcaaa agggtaagat gaaagcttta ctttgtacaa    4080
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5167

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ggaacagccg taacaggtca accttgtgga gccatcgcga gttagagggt gaaagatggc    4860
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tcataatact tttataatac attaagcctc ttgtctacat atttggagag aatatgactt    4980
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        <210> 6525
        <211> 4707
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(4708)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (3748)...(2068)
        <223> similar to gi23903 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




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atatatgaac tcctggtcaa ggccagcagc ttgttccttt accaaaaaag taaagccgcc    180
ctctgaggac aaaatggcac atgaggagtg gtgtacattt cttttttctta aagaaaaaac    240
aaaacccaaa cacttcctat ttacatattt tccatttaaa agttggtcag tgtgattaat    300
tctgttttta aatataagtt tctaatgtgt tgcaggtttc aacgtacaaa ttatagtttg    360
ctgattagat ttaaggtgct gtgatgtgag ggtgaacgca gcccaagacc aactggtgga    420
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tgtcagtgtc cccaccccac gcttctgcag agggcctgtg tctacacacc attacccat    600
gctctgtggg tgagcacaca ggtttgcatg caccaaactc accttagcct acactatgag    660
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gcccccaagg tcacgacgtg ctctccaaca catctctgta gggtctgctg tttgtcaagg    840
ctaaatggat gatcaaactc aggaaagtat tgatgaagga tgttgggtcc catgtgaaac    900
cttctctcct aacacatttg ctctatggca ggacctcact gctgtcctcc aaatgagcag    960
ttcatgtaga gaacattagg tcccgaggta ggtctggaga ggcgctgtgg ttaggtgggg   1020
gggccgggtg tggggtgaag ggggagtgct ggcagggagg ttggagggat tcttggaatt   1080
ggtgccttca acctcactgg ggtaggacgc ccagtgggga aagagggctg tgtctttgcg   1140
tgtcaggaaa gtgcataggg agtgctgagg gggtgtgtgc acaggcctgg gagaagggct   1200
gattttaccc acagacccca ggctgttctg acctgaaacg aagatttccg accatgcagg   1260
ggtgaggcaa atacaggggt gcgacagatg agaacattta agtacttggg gagccaggaa   1320
agtatgcttg gtgactagga gaaacaaact ggttcagttt ccagtttcag aatacaagaa   1380
acattgcttt gaataaaaga acatcgaatg gtaatggaca gggaagaaac atctcagacc   1440
aagtttctaa caaaaagcca gaacgacccc agtagaggaa gacattctat ggtggacaga   1500
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```

5168

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cttaagcgag tgtctctgcc tctctgggcc taattgcctt tcctcagctg tcagttgagg   1620
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aggtgggggcc cgcagactgc tgtctaaagc cgtttcttcc ctgtgcacca catgtggtct   1740
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caccaccttt ctttggagaa ggcctcggtc tgcacgaggt cgccagggtg ctcggggatg   2040
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ctgcccaggc ccaggatcct ctggagcctt tggatgtggg cagcatcctc tttcaccagc   4560
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tggcatcttt cagaccaagt ctccttcccg aggcagagcc cgagagcgtg gcggcccggg   4680
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```

5169

<210> 6526
<211> 3015
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3016)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (344)...(1690)
<223> similar to gi32026 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6526
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tggccgagca agcctggaaa atggtaaatg atcatttgga tcaattacag gcttttagct     180
ggcttgtctg tcataattca tgattcgggg ctgggaaaaa gaccaacagc ctacgtgcca     240
aaaaaggggc agagtttgat ggagccgggt ggacttttct atgccatttg cctccacacc     300
tagaggataa gcacttttgc agacattcag tgcaagggag atcatgtttg actgtatgga     360
tgttctgtca gtgagtcctg ggcaaatcct ggatttctac actgcgagtc .cgtcttcctg     420
catgctccag gagaaagctc tcaaagcatg cttcagtgga ttgacccaaa ccgaatggca     480
gcatcggcac actgctcaat caattgaaac acagagcacc agctctgagg aactcgtccc     540
aagcccccca tctccacttc ctcccccctcg agtgtacaaa ccctgcttcg tctgccagga     600
caaatcatca gggtaccact atggggtcag cgcctgtgag ggatgtaagg gctttttccg     660
cagaagtatt cagaagaata tgatttacac ttgtcaccga gataagaact gtgttattaa     720
taaagtcacc aggaatcgat gccaatactg tcgactccag aagtgctttg aagtgggaat     780
gtccaaagaa tctgtcagga atgacaggaa caagaaaaag aaggagactt cgaagcaaga     840
atgcacagag agctatgaaa tgacagctga gttggacgat ctcacagaga agatccgaaa     900
agctcaccag gaaactttcc cttcactctg ccagctgggt aaatacacca cgaattccag     960
tgctgaccat cgagtccgac tggacctggg cctctgggac aaattcagtg aactggccac    1020
caagtgcatt attaagatcg tggagtttgc taaacgtctg cctggtttca ctggcttgac    1080
catcgcagac caaattaccc tgctgaaggc cgcctgcctg ggacatcctg attcttagaa    1140
tttgcaccag gtataccccca gaacaagaca ccatgacttt ctcagacggg ncttacccta    1200
aatcgaactc agatgcacaa tgctggattt ggtcctctga ctgaccttgt gttcacctttt    1260
gccaaccagc tcctgccttt ggaaatggat gacacagaaa caggccttct cagtgccatc    1320
tgcttaatct gtggagaccg ccaggacctt gaggaaccga caaaagtaga taagctacaa    1380
gaaccattgc tggaagcact aaaaatttat atcagaaaaa gacgacccag caagcctcac    1440
atgtttccaa agatcttaat gaaaatcaca gatctccgta gcatcagtgc taaaggtgca    1500
gagcgtgtaa ttaccttgaa aatggaaatt cctggatcaa tgccacctct cattcaagaa    1560
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gagcacagtc ctagcatctc acccagctca gtggaaaaca gtggggtcag tcagtcacca    1680
ctcgtgcaat aagacatttt ctagctactt caaacattcc ccagtacctt cagttccagg    1740
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aaaactcaag aaggaccaag aagttttcat atgtatcaat atatatactc ctcactgtgt    1860
aacttaccta gaaatacaaa cttttccaat tttaaaaaat cagccatttc atgcaaccag    1920
aaactagtta aaagcttcta ttttcctctt tgaacactca agattgcatg gcaaagaccc    1980
agtcaaaatg atttacccct ggttaagttt ctgaagactt tgtacataca gaagtatggc    2040
tctgttcttt ctatactgta tgtttggtgc tttccttttg tcttgcatac tcaaaataac    2100
catgacacca aggttatgaa atagactact gtacacgtct acctaggttc aaaaagataa    2160
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                                    5170

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ttgtctttgc tctttctgat gctctcaaac tgcatctttt atttcatgtt gcccagtaaa      2340
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gttaatcaaa tgtcatttgt tcaattgtta atgtcacttt aaattaaaag tggtttatta      2460
cttgtttaat gacataacta cacagttagt taaaaaaaat tttttacag taatgatagc       2520
ctccaaggca gaaacacttt tcagtgttaa gtttttgttt acttgttcac aagccattag      2580
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tcaatcacta tgaagcagag tgaaagctgt ggtagagtgg ttaacagata caagtgtcag      2820
tttcttagtt ctcatttaag cactagtgga attttttttt tttgatatat tagcaagtct      2880
gtgatgtact ttcactggct ctgtttgtac attgagattg tttgtttaac aatgctttct      2940
atgttcatat actgtttacc tttttccatg gagtctcctg gcaaagaata aaatatattt      3000
attttaaaaa aaaaa                                                       3015


       <210> 6527
       <211> 4413
       <212> DNA
       <213> Homo sapiens

       <220>
       <221> misc_feature
       <222> (1)...(4414)
       <223> n = a,t,c or g

       <220>
       <221> misc_feature
       <222> (1119)...(3816)
       <223> similar to gi4514653 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



       <400> 6527
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aggggcttag ccaccagggc tcggaagtgg gggccgaatc cggtgcgaga cccaaggaga       180
ggggagcaga gccggagttg gggagactgt ggctgaaaac tgtgtcttcc tggagactag       240
gctggcattt tgactttggg gttgctgaaa agccaggagt caaaatgact gagcgctttg       300
actgccacca ttgcaacgaa tctctctttg gcaagaagta catcctgcgg gaggagagcc       360
cctactgcgt ggtgtgcttt gagaccctgt tcgccaacac ctgcgaggag tgtgggaagc       420
ccatcggctg tgactgcaag gtgcaacatt agaggaaatc aatcagcact gggactggct       480
ggaacaaaat ctcctccaca ccttgtctgt ctttgataat aaagatgaca ttgccagttt       540
tgtcaaaggg aaggtaaagc cgtgtgtctg ggtggctgac ggatgacaca gctgagccat       600
tctcctcatc aggtgtgact gtcgttgaag cagcgcacac ttctcggggg cctgtgcacc       660
tcagtccctc ctgcttcctg tcccttgcac ccctgccttt cccattgctg gctcactgag      720
cagggactgt catctctgtg tgtcaggctc tgatagccga ggagaccagc agcaggctcg      780
ccgagcagga ggaggaaccc gagaaattcc gagaagccct ggtgaagttc gaggccaggt      840
tcaacttccc cgaggcggag aagctggtca cctactactc ctgctgctgt tggaagggca      900
gggtgccccg ccagggctgg ctgtacctca gcatcaacca cctctgcttc tactccttct      960
tcctgggcaa ggaacttaaa cttgtggttc cgtgggttga tatccagaaa ttagaaagaa     1020
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cgtccaatgt ctttctgacg gataccatcc gaatcaccac gcagaataag gagcgtgact   1080
tctccatgtt cctgaacctg gatgaggtgt ttaaggtcat ggagcagctg gccgacgtga   1140
cgctgcgaag gctgctggat aatgaggtct ttgacctcga ccccgatctg caggagccga   1200
gccagatcac caagagggac ctggaagcca gagcacagaa tgagttcttc cgggctttct   1260
tcaggttgcc gaggaaggag aagctgcacg cggttgtgga ctgttcgctc tggacgccgt   1320
tcagtcgctg tcacaccgcg gggcggatgt tcgcctctga cagctacatc tgctttgcca   1380
gcagagaaga tggctgctgt aagatcatcc tgccactcag agaggtggtg agcatcgaga   1440
agatggagga cacgagcctg ctgccgcatc ccatcattgt cagtatcaga agcaaggtgg   1500
ccttccagtt cattgagctc cgggaccgag acagcctggt ggaggcgctg cttgcgaggt   1560
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cttcactcgt gtttcattca acaaggcatg tgccagtgac cacagatttg gggatcctga   1680
aataatgtct tctcaaaata gcgaggagag tgagaaagag aagagcccgc tgatgcaccc   1740
cgatgnccct ggtcaccgcc ttccagcagt caggcagcca gagccctgac tcccgaatgt   1800
ccagagaaca gataaaaata agcctgtgga atgaccactt tgtggaatac ggcagaaccg   1860
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tgcgagggag actctggctt ctcttctcag atgcggtgac ggatcttgcc tcacaccctg   1980
gttactacgg gaatctggtg gaggagtccc tggggaaatg ctgcctggta accgaggaga   2040
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ttgctgcttt gaggagagtc ttgacggcct atgcccaccg gaaccccaag attggatact   2160
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```

5172

<210> 6528
<211> 3608
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3579)...(382)
<223> similar to gi4585699 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6528
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tggacagaca gcattgtaat caggacattt tgagggctca gacttggtgg agatgtcttt    180
atacccctca gatcacagag tctaggagga aagagatgga aaagactgaa aatcagtgag    240
tccattccca aaagctctgt attgttttct atagcaaata agacaagctc cgaagaattc    300
tttgtatata cagatggtga aggtaggtga ttcagaactg gggtttattt tttccctcat    360
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ggggtgctgc tctcctcaca cttccctgta ctgcggatgt gtgtatttgt ttggcgtatc    480
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ggctttaaat cctttggaca aagatagcct atcctgggca atactcggta gtctttgcac    600
atctcagaat ccagagaact gaaagagtct gggctgtctt cctcttgaga aagctctaac    660
atgggatggc ttttcttgaa gctttgccct ttccaaagct tctgttagaa agacagctct    720
gcacatgtag cacttgtttg tatagaactt tccatcagca ccgtgcactg ggtcattctc    780
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cactttctcg agtgcagata agttttccat ttttcatttg gcttctaaac tcatcacatg    1260
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aatgacgata ttcactgcac agctcctgaa ctgcttctct cttaactttt tcagcctcaa    1920
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tcttcttctt ctgcttggaa gaagacctca cacatggagc aggtgttgcc atgcactttc   2400
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ctggtacaga aaagtattcc attctttgcc tgatтttgat attgactgca gagtttcaca   2700
atttctcttt taactttagt ttttтcttca gctttтccca aattтtgatc tgtтttactg   2760
ttttcctctg aaaaacgctg cttgaaaatt tcagcacaca gggcacattt gttgccatgc   2820
atcctgccgt cagggccacg gactggatca ctctcccgtg tacaaaaaag ccttccattt   2880
ctcacttgtt tttcatattc cttgcaaaaa tccttттcag catttcgtcg aattctagtt   2940
tcaccctctc gcttggcatt ttcagcttct tttaaaaaca gctcagcaca cattgcacac   3000
ttattgccat gcgtcttccc atcaggacca agaacaggat cattтtccct tgtgcatcca   3060
agtcttccat ctctaacaaa gggccgaaaa gcactgcata catcctgctc tggattactg   3120
ctcttacatt cccttcact ttтtacacca atttgggacc cggtтttcgc attctcagca   3180
cacagtgcac atctgttgtc atatgtтttc ccatctgtgc cacaaacagc ttcataataa   3240
tcaggacaga taaaatcccc atctcтttct ccttттttaa aatcatcaca attcagctct   3300
gttggggcag tagccttggg agctcttgct aaatgcctgg ccctcttctg tgatтttgct   3360
tcttтttcca gtatcatтtt gcacgtggca catttattga tgaacattat tccatcaaga   3420
ctttgaaaaa atttcttatc ctggggacag aacagtтttc catтtttcat aaatgcctga   3480
aattcatggc acatтtcctg atcttcattc ttactggcag catcttgtat gaggcaaaga   3540
gccaagggca gaagcactga cactgtggct atcttcatgt tgaagacgat gcaagtcgcc   3600
tacaggtc                                                            3608


<210> 6529
<211> 1047
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (978)...(176)
<223> similar to gi1330308 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



<400> 6529
ttttttтttt ttccaaaagc cttgttтtta tttatataga gtcctaacca cttcggtggt     60
aggaggagtg ggagaggctc cttтttcaat ccagggacct ccatgatgtt ggtttgttgt    120
taccaaacac acaggtaagt ggcatcacgg atctggtaaa ctaacgacaa tgtttagtct    180
ctctctgcta gagcaacaag gtgagcatca atctctgctt ctgtaagaat cctgaattta    240
ggattttcaa ctgtcactac tccaacttct atttctgaag gtttgaaatc aattgataga    300
acagtagaca ggcatgtaat tgcagtttcc actgtctgtt caaatgtcca atcaaatttc    360
ttcttcactt ttтtтtcaag gaagctggtt gactcagttt gtttaactcc cgctgcagtg    420
gctttaaacc cacagtagta acctgcagga tcacacttat atacctgagg gccttgctct    480
tcatctatac caattaaaat catacaacaa ccaagaggcc tcatttcagc attctgtgtg    540
tagacctgag aaatatcggc aattcттtta cacagcatgt ccacaggaat ctcatagcca    600
tacttgtatt tccagttagc tgcctcatag cgtgccctct gtacctggga tctgctgtca    660
gctgtcattc cggtcatcac acaaccaatg tttтtcagtta tcttgaataa gtgagtcact    720
gtgctggaat ccaataatтt gtcaggtact ttcttctgtg tgacaattac tgcacagtct    780
```

```
ttccctctga cagctactga tgtaaggcca ccctggttaa tagccttaaa agcatattct        840
acttggtaga gccgaccctc gggtgaaaaa atggtaatgt ggcggtcaaa accggcgctg        900
gaaccacggg acatgttggt agaagcacta ctttaaacac aatccctggg ccccgtagct        960
cccgcaccag gcacacaagc acctcccgga agttgcagcg actgcttccg gggtaccagc       1020
cgcacgaaat cgtcgtccgg gaattcc                                           1047
```

<210> 6530
<211> 2548
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (300)...(917)
<223> similar to gi474388 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6530
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cttcggcgtc gcgtcgctcc tgcgctggag ctctaggccg gcgtctctcc gcgagccgcg         60
ggtcaagtgc cagtggctaa gggtgcgcga gtagccgcca cccgttcggc gttggctctg        120
gcgtcggggt cgttgtgtcg tgacaaccgc tgcggtagcc gtttccgagg cagcagttgc        180
ggccgcttta gccctgagcg ggatctgcgg ctgcctgcga gtctctgctg tgccgaccct        240
tctcttcgcg acccccacgc caagcagcga ccctgagccg acagccggag cgcccggcaa        300
tggcggcctc gacggcctcg caccggccca tcaaggggat cttgaagaac aagacctcta        360
cgacttcctc tatggaggcg tcggccgaac agccccgcgg gaaatgtcga cgaggagctg        420
agcaaaaaat cccagaagtg ggatgaaatg aacatcttgg cgacgtatca tccagcagac        480
aaagactatg gtttaatgaa aatagatgaa ccaagcactc cttaccatag tatgatgggg        540
gatgatgaag atgcctgtag tgacaccgag gccactgaag ccatggcgcc agacatctta        600
gccaggaaat tagctgcagc tgaaggcttg gagccaaagt atcggattca ggaacaagaa        660
agcagtggag aggaggatag tgacctctca cctgaagaac gagaaaaaaa gcgacaattt        720
gaaatgaaaa ggaagcttca ctacaatgaa ggactcaata tcaaactagc cagacaatta        780
atttcaaaag acctacatga tgatgatgaa gatgaagaaa tgttagagac tgcagatgga        840
gaaagcatga atacggaaga atcaaatcaa ggatctactc caagtgacca acagcaaaac        900
aaattacgaa gttcatagac gagatttgtt caacactgca attgtttgtt agatgtaaac        960
cctgtgacta tagtacgttg cttcttgttc ttcacaattc atgacttaag taccaaaatg       1020
cataccagtt attatatatt gccaagaatt aaatgataaa cttagagact gattagactg       1080
aaaatgccta atcgatatat atattcttgt gcctagtact ttaccacaaa tacagtgtaa       1140
tatcatcagt ccaaaactgc attacttttg taaaaacact ggttaatttg tataagatat       1200
tatagagctt tttatgcttt agaagttaaa caatatcttt ggggggaac taatttattt        1260
tcatcacttg aaatgtggta gctcttacaa agtttattga tttgtttttt taaaaatcaa       1320
aagccaattg aacaacagga tatatagact gataaatatt taggctgaat agtatttaa        1380
cacttgtctt caacttgatt tgtctgttta attgaaaaga attataagag ttactgttgc       1440
attttctgac ctactatttt taaaattcct gttgagtttc tttgtgttta caaggaaagg       1500
actgaacttt ttctcatcaa aactagcttt tttccccaca aataaattat caggttaaac       1560
tttcaccaat gtctgctctg ttttttgttt ttggggggtt tttgtttgtt tttgtttttt       1620
aatgtttttg gtacactggg cagacttcag agcagttttt taaaaaaata aatattctaa       1680
tgtagctatc tcgccattcc ctttaaatac ctgtcttaac ctcctgcttt tctttcctac       1740
tcctttccac acatacgcac acaatcttct accttttaaa ggatcattaa gactgtcacc       1800
acattaggag ctctttctct cactcttctg tcatttgctg ctatgttgaa attcttattt       1860
tgaccatcaa tgcctatgaa ttcttctaat acgtgaagaa aatagtttga gtagcagcag       1920
```

5175

```
tgctataggt gggaaataca gtttagctgc tgaatttcta tacctctctg atttacagat      1980
tgctaattaa atggctatta ttagtttgga ttaattcgac ttaagaaaac aactaactga      2040
gggttttttt tgtttgtttt ttgagggttt tctttgcatg agaattgtat gtaaccagtg      2100
atatgattat tcctgaatgt acagacagaa gtaagcctgg acattgttaa atagtccctg      2160
ctttaaggga ctacgataat gtgtactatg acaaacgtgc tttattcttc taacgcagta      2220
agaattaggt ggaatttttt ccttcaacca agtgcaggaa agccctgtgt gtcttggttt      2280
agttatggtt tcatttctag ccatacaatt gatgaattgt gtacaacttt tgttagtacc      2340
aaaataatct gttatatgaa cagacttcta aaataacgtc tgtatatttt atatatagat      2400
acatatatga aagaaggctt ttattgaaca gcttatcttc cacttgcagg tttatggaaa      2460
cagcagtatt tgaaaataaa taaaaagtgg gagaattcct tgctgttaga agaatgtggc      2520
cattattttg atttttgaa tgagatat                                         2548
```

<210> 6531
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (827)...(303)
<223> similar to gi3114824 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6531
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tttttttttt ttggcatttc aaaacgggct ttaaatactc atcagggtgc cacacaaagg        60
agctggggtg agaacttcgt acatgtgagt gtggggctgg ggtgccctga gagagaaaaa       120
ggggacccat ctgtcagggc agctggggtg ccccacaccc catttctggg actagggagc       180
agagtagaaa atttctctgg agggtcccag ggctaacctg ggagccagcc ctcttttcga       240
ggtagacaat cggggaaggg aacccangaa gtagctccca tggtggcaag tggcttcctc       300
aagtggtact gctgatagct tggggtagcc tggggccggt ggtgacatcc ttaggggca        360
gcttggcttg gggtcctcca gggaattggg ggcgcatttt cggaactgct ggggctgtgt       420
agcgagtgag gaggatgcca acgccctcaa tgagggccaa caggatgccc cccatcattg       480
ctgagcccac catggccagt gggccactgc gggcagccag cacagccccg gtcaatgctc       540
cactggtgat agagttccag ggatcctcct tgccccgaag ccgcaccagg ccacagtcga       600
tggtggagaa caggcccccc cacactgcga agctacctcc aatctggggg gctcggatcc       660
tcacagcatt ggcactacct ctcaaccggt gccgaattcc aacaggggca ttgcggaaac       720
ccttgatggc ctggaagact ccgccaccga tgacacccat agtgaaggct ccaccgcaat       780
catccacaat tcgccatggg cagggctccc gagcgtactc ctccatggcg ctggcacgaa       840
atcgtcggnc gggaaagcgg atngatggtc a                                       871
```

<210> 6532

5176

<211> 2144
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2145)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1412)...(180)
<223> similar to gi3133092 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6532
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tttggttcca aggggtttaa ttggggaacc cccgggtttt tccccccccc cccttttttaa    60
aacccggccc cggaaattaa atttgggggc ccctaaaaaa aatttttact ttcccacccc   120
cgggtattaa aatttgtttt ttttaaaggg ccccccctttt tttttttttt gatttttataa   180
tagtttatat ttgcacacaa attctgccac attgttcagt accaccaaag taaaattctt   240
gaatctttca ttgaaaatga aaaacccatc tgtcacctgt tcccagtaaa aaactgattg   300
ttctatgaaa tcggctgttt tagtcagata ggaactgaag tttgaaagac agcctttcca   360
agttgccagg tcatcaaata atgaccattc taggaacatg gtaggaccaa agacaatgac   420
aaggccaagc agaaggatta gcaaaaataa cttataaaag ctccagggaa tcttgctaat   480
gaatgtgcca gtgtcttgag gcaaagaaag tttatccaca tcgactagtt ttatgtcttc   540
ccactgactg gtatcaaagt tcttcattaa agggcttgca ggcaaattag agggaggtaa   600
aggagtttcc ttgattactt tgatttttctc tctaaactcc tgcatctgtt gcagaaatac   660
aatgggttct gacacatctt tgaaagcctc agcaatgtta aaggccatcc gttgctcctg   720
caagatggtg ttgagtttgt tgatctctgg gtcatatgct tgcataacag caagtttcat   780
ggtctcaaag tcagacagaa tttcattctt cttttgatcc agtgtgtgtt gtaacttctc   840
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agtttccaag gtatccaagc gagaaagagc atctccccga cgccaggtct caaagctctg   960
gaagagggac tcaaaggcat cccttttcctg agcataggca tcttcaatag aacagaagac  1020
atgtttggtg tgctccccac gagtagccac agatccccac aaatccagct gcatatcagt  1080
ccaggccaga aaatgttgag aggctgcccc aaagtgtcct ttgcatactg gcattttggg  1140
agagatcttg atcttgttat acttttccac aatacccttc agggagtaat taacctgcag  1200
gggtattaat tcccagtagc tgaaagtttt cttacggcat gtaggacact tgaatggaac  1260
tggtctccac aaggaattcc gcacactccc ttctaagata ccttctaagc attttttgca  1320
gaagttgtgg gagcaaggca aaacccgtgg atcatcaaac agactacaac aaatagggca  1380
tgtgagatct tcttcaagca gctccatcac atcctctgtc tcctacaagc tgatgtattt  1440
ggcagggtta ctatttccca gggcaaagca ggtctttttt ttcacgtttt gactaacgaa  1500
ctagaggctn ctgcaaagaa agaagaaaaa gaacagtatt aacgcattta tttgcacagc  1560
accccaatct tgaccctcaa ttttttcaat cgcccccaca aataaagccc ggctgtttag  1620
acctggtgaa ccgccaggag cctggagctc tttgtattaa gcagcttctc ggttagggcg  1680
ccctcccccg cgccatgca accaaacgct ggcggcgcgc tgtaacataa ggcccacacc  1740
cgtctttttct tttctagggg atgtggagac gctggtagcg gggccaggaa ggctccggac  1800
ggagcaggtt ttctggacca cagacacact gccccggcgc cctccgcagg ccgctcctcc  1860
ccaggcccat gacagtgccc cgctggtttc tgccgcgctg ccggactgga gctcagacgg  1920
ccttcgccag cccccccaac ccacgcagat ccctgctgac ctgggcaact ccccacccctc  1980
gctgaaggtt cgaggaccac cccgctttcc cgagaggagc cgggcggcgg gtacttatct  2040
ccgacctccg gctagtggga aaggccgcgc gcccgcccgt cctccaacta cagggaccgc  2100
acggtacgcg ccaagcacag ccccaaaatg gactcgcgac gaaa             2144
```

<210> 6533
<211> 1081
<212> .DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1082)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1076)...(0)
<223> similar to gi473949 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6533
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caaatgctgc tgtaaattcg taacagcgaa gaaaaatata tacgaaccgg gtttaaaagg   120
aaaagtaaaa aacaatccac agttgagcag ttgatgtgca aaatcatccc aggaatccaa   180
ctttctggtc tcttgggccc cnaggctttc tttcctggtg gcacaacact cctgccaagg   240
aggcatgcag taccttgccc acacgcttgg caagtctcca tcatctcgaa agatgctctc   300
tgggtcccag gcttgccctt ccccccactt tcctcaatgc acgtcacaac tccccttgct   360
gggtcaccga caccaggcaa gctggccagc gagcaggcct cctcctgaag aggtatgcat   420
ccaccacatg ccgatagcca attttggcac agagtgacaa tggcaggggg gacattctcc   480
acactttagt cgtatgcagt cataagggtc atctgacaat tcaatggtcc ttcgacccct   540
cttcatcctc caaaactcga acccttggta tccttgtatt gaagagagca gcctttacag   600
caatggaaat ggcatcaaac aaatttccac cacattccca gaaagcagca catcccacat   660
agagaaccca acaagtgctc ccggaggact taatgcagag ggtctttaag tcggacactg   720
ctttttaattg ttaaatatcc ggatagaggg tgttagcgat ctcggtgccc aaggtcatca   780
cctcctctac cttcaaattg caggggtagc actggctgaa cagtcaacaa agaactccaa   840
gtagccttca tttggtttct ccagcttcgg cgtccccatt tctgcctttc actcccacca   900
agatgtctgt gtgaacccag cttgaccctg gcggaccac tagtgttgga caccacatca   960
gtttaccact tcgacacatc ggtagtccct cacagccacg gccatccaca cggaggtctt  1020
cctggacgcc atgcacgatg tacaccttct ccgcctcgct cagcgtcacg gacgccatgc  1080
t                                                                  1081
```


<210> 6534
<211> 3294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2284)...(905)
<223> similar to gi3043688 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
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ttttccttca ctattgacag cttcagtttc tgtacttact gtgtcatcct atccattccc     120
ttccctgagc ctgggactgc ttttccaggg gaaactagga gggaagggag gagtcctccc     180
aaagttaccc tttaagcttg ataattagct ccatagccat gctaaagcat gactgtagat     240
ccccaagtcc ctgacacatt ttcttctaag aaactggtta gccaagaaag taaagacgta     300
agccctgaag atggcaaaag gtgtcataat ctcccaaagt catctgtata gatgcttcat     360
ttaacccttt ttcttttgca gacaaagggt taaaaatctc ttctttctac ctatatcttt     420
aaagagggat tgacaagccc aaatttcctt ttatgaaaag acccaaggtt tctggccaac     480
aattcacttt tttcagtctc ttaggtcctc ttgcatgcct gagaatattg agtattcgga     540
atctcctacc agcccttggt aaatgaccct accaggtgga atagtttgag ctttatctgc     600
tctttttaa tgggatagag gggaaggcaa cacgtcttat tttatcaaaa attgcaaagc     660
tacacgctct ttgtggagaa gcaccaaaag gaaaacctta gtttggaagg attcattgta     720
aataaaaata gtaactcagc cctccattca gggaggagaa aggcattta aagctagtat     780
attgaaggtt tccccttga cttcagtgtt gaatggctct tgcaaggact tcttgaagga     840
ttttttctc actagccagt gtttggccga caggttgcac ctctgcctga gaagatgcca     900
ggttaaaccc cttcacatgg gtgctccatt gccgccatgg gcttttgtc agggataagg     960
gtgcagccag ccagcatgtc cagagaggcc aagatagagt catacaggcg atctgcgtgg    1020
ctctccagct caccagactg ctttgcgatc ctcccaagga catcctctaa aactggggtg    1080
ttctccaaca ggcactgaag aagaatctcc cccttctgta agacactctc cgtcagagac    1140
tgatgttcat ctatatcttt cttaaattgc cggtaaagct gcagagaaga ctttgagact    1200
tgtaagattg gacctggctg gagtcccgtg gtcagtaaca tctgacaaca ttatacagcc    1260
agcagatcag ctcttccagc tgacaggcaa aatgtcttca gcacattgca ccagtgattc    1320
ttttccctgt tctcctcctt tcctgggaag ctgcccttca acatctgggt ctgagaatgg    1380
ccaccggtcc aacctagctg gcaaggaggg gcgtgttttc agcagtccag aggagacccc    1440
gagggcctgg ctgctcccca gactgccttc ccctgcggag tcgtgggcac ggacgaagga    1500
gcgcaggaaa cagggattct ggccctcagg atccccagat ccttggaggg cagctccagg    1560
gggaagctgg ctttggctgg agcttgaagg gaaggaagct ggcccatcac tgtctgacac    1620
ttccaagggg ctctgccctt tgatatcccc agtgggcagg gtaaccaagg tagaaatgga    1680
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gtcatcactt tccacttcct cttctgattt ccacctagac tctgtgcagg tagggcgccg    1800
ggcactctgg ctggtcctct tctccctctc tggcctgggc gagggccacc ctctgtcccg    1860
tgtccttagc tggggagagc ccatatcaag gtgcttgcct atagtcagcc ggtccttcgc    1920
accctcagg gctggctctc tgcgctccca acgagcatcc ctactgcctg gggctctggg    1980
ggtagatgca agttggctcc aagatgccaa gcccatgcca ccctgtttct ggggtactct    2040
ggagggccac tgcttaaggc ttggctctct gggcccagaa aatggcaggg cagtggcctc    2100
tgctggtggg cagttggggg agacattagt aggtgatttg agggtgcttg ctggagagac    2160
agagaagcta tccaggtcta ccccggagtc ctgcaggaca gggtcagctg gcacacggct    2220
atcaaggtgc tttgggagct gaggcccggg cctcagtggg taagtatagt caagcagatc    2280
ttcatactct ttatttgggt tccagagagg ggagtggcgg tcgggtgatg gaggcaggga    2340
atctggcagc acacaggccc agtactcagc ctggaaggag aggcgtctcc tgcctagccc    2400
agaagcatca cccccagaga acacaggctg tggtgaccac tggggccgag tcctagccc    2460
caccacagag gaaggttcct ggggacgac cggctccagg gaggaggaga ccttggccag    2520
agaaccacca cgaggctccg ccctctcctg gtgaccctgg agactgctgc ctgtggagga    2580
agcagagatg ctgcagctgg aaggctgagc tgcggaacct gggctcagca cggacttcca    2640
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caaatctgct agggatggat catcttcggt atcagcatca tgtcctgagc aaatagttgt    2760
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gagtgcaggc tcagacctct cagctacggg ctctctgttg gcatcactgg cctgtggctg    2940
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ttctgccccc catacagggg agatgagccc tccctcagct tccaggcgtg ggggctgctc    3060
cccactcatg ggccctggga tgtccagctc ccgctccctg cagctccctc tcccatagga    3120
```

5179

```
ctgggccttt gtgtcttcag atgcttccgc ttctgccttt tcttcaccca gggccattga   3180
gactccctac ctaggtcagg gttctgctga agacttcagc ttcctaccgc accgcgaacg   3240
cttcgcacgt ccggagcggt ctcagcagcc ccatgcgctg gccccgagac gaaa         3294
```

```
        <210> 6535
        <211> 1875
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (231)...(1812)
        <223> similar to gi1491706 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 6535
tcaggctgcc tgatctgccc agctttccag ctttcctctg gattccggcc tctggtcatc     60
cctccccacc ctctctccaa ggccctctcc tggtctccct tcttctagaa ccccttcctc    120
cacctccctc tctgcagaac ttctcctttta cccccacccc cccaccactg ccccctttcc   180
ttttctgacc tccttttgga gggctcagcg ctgcccagac cataggagag atgtgggagg    240
ctcagttcct gggcttgctg tttctgcagc cgctttgggt ggctccagtg aagcctctcc    300
agccaggggc tgaggtcccg gtggtgtggg cccaggaggg ggctcctgcc cagctcccct    360
gcagccccac aatcccccctc caggatctca gccttctgcg aagagcaggg gtcacttggc   420
agcatcagcc agacagtggc ccgcccgctg ccgcccccgg ccatcccctg gcccccggcc    480
ctcacccggc ggcgccctcc tcctgggggc ccaggccccg ccgctacacg gtgctgagcg    540
tgggtcccgg aggcctgcgc agcgggaggc tgcccctgca gccccgcgtc cagctggatg    600
agcgcggccg gcagcgcggg gacttctcgc tatggctgcg cccagcccgg cgcgcggacg    660
ccggcgagta ccgcgccgcg gtgcacctca gggaccgcgc cctctcctgc cgcctccgtc    720
tgcgcctggg ccaggcctcg atgactgcca gcccccccagg atctctcaga gcctccgact    780
gggtcatttt gaactgctcc ttcagccgcc ctgaccgccc agcctctgtg cattggttcc    840
ggaaccgggg ccagggccga gtccctgtcc gggagtcccc ccatcaccac ttagcggaaa    900
gcttcctctt cctgccccaa gtcagcccca tggactctgg gccctggggc tgcatcctca    960
cctacagaga tggcttcaac gtctccatca tgtataacct cactgttctg ggtctggagc   1020
ccccaactcc cttgacagtg tacgctggag caggttccag ggtggggctg ccctgccgcc   1080
tgcctgctgg tgtggggacc cggtctttcc tcactgccaa gtggactcct cctgggggag   1140
gccctgacct cctggtgact ggagacaatg gcgactttac ccttcgacta gaggatgtga   1200
gccaggccca ggctgggacc tacacctgcc atatccatct gcaggaacag cagctcaatg   1260
ccactgtcac attggcaatc atcacagtga ctcccaaatc ctttgggtca cctggatccc   1320
tggggaagct gctttgtgag gtgactccag tatctggaca agaacgcttt gtgtggagct   1380
ctctggacac cccatcccag aggagtttct caggaccttg gctggaggca caggaggccc   1440
agctcctttc ccagccttgg caatgccagc tgtaccaggg ggagaggctt cttggagcag   1500
cagtgtactt cacagagctg tctagcccag gtgcccaacg ctctgggaga gccccaggtg   1560
ccctcccagc aggccacctc ctgctgtttc tcaccttgg tgtcctttct ctgctccttt    1620
tggtgactgg cacctttggc tttcaccttt ggagaagaca gtgccgaccc aagacgattt   1680
tctgccttag agcaagggat tcacaccttc gccaggctca gagcaagata gaggagctgg   1740
agcaagaacc ggagccggag ccggagccgg aaccggagcc cgagcccgag cccgagccgg   1800
agcagctctg acctggagct gaggcagcca gcagatctca gcagcccagt ccaaataaac   1860
gtcctgtcta gcagc                                                    1875
```

5180

<210> 6536
<211> 1731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1732)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1539)...(141)
<223> similar to gi1514597 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6536
```
tttttttttt ttgctagcta tcataacttt attaaacaag aaaagccctg acgcgtaaat     60
aaaaaacacc tgagttctga tgaccccgcc ccgcccagtc ccgcccgccg aggtccgtgt    120
ccaagtcccg ngttttcag gagctatgtt tctgccgctt ccaaaagcgc ttgacgtcgc    180
tgtgcccggc cggggtcacc accatgagcc gcttggccgg agtttctcga acacgagcac    240
gcccagcttc ggggcgtggg ccagcaagca gctcaaagtc cacttgcgac aggaactggt    300
tatacaggac accctcagtg aaccggagtc tgtccctttc cagctcccag agccggatct    360
ggtcggtgat ggtggggggc agcacaggtg tctgtttgag catcactggg tgggctcttg    420
tccttaggaa atggattatc tgctgggctg tgatgccact ggcgattgcc tgctgcacac    480
tctccccggg tcaccctcgc caaccaccat gttgggggaa cggataaagc atctcagaga    540
agagggcaat gagggcaatc tgcagctccg actccgtgta ggcatacagt cggtaattgg    600
tttccacgga caatgaaacc tggctgatgc acagtgcccc cagctccaga gacacctgat    660
gagagattga tggccaaggc ggtgtggggt agtaacgccg agatttcctc ttcctctgga    720
aaacaagccc aaactcacgc agatgttgca ggaagttcaa cagagaatca ctcatacctt    780
ccacagagta atccttgccc agagtagaga agctgagctg gaagaggaag gagagaatct    840
ctaccaggtc catgccccgg ctctgggctg tctgcaaata ctgcaacata aagtaccaga    900
gctgagccgg ggtgtccagc aacaggaact ggaagccagc ggaagtaatg cagggcggct    960
ctccaggttc agtactcttc atgagcccag cctggctgag gagctgagcc aagtcctggc   1020
tgacagctgc actgggggag cccaccatga agtgcaagac cacctcccat cgctcctcgg   1080
cgtacttgtc aagggaggga acgtcccggg catgcttgtc tggtcccagc tgacttgtgt   1140
catcagacca ggccttcccc ccacccagaa gggcaatgcg gaggttctgg cggaaaatgg   1200
ggttgaggat gaggccctgg agccgcctg ggagcagctg ggtgtgccag atccggaggc   1260
cgctcagcag ccctgtactt tcctcctgag ccttgctgaa ttccttcttt acccacagag   1320
ctacagcagc ctgtggcaaa ggctgctcca gaaagagcat ccgcatcacc cagttcttag   1380
ccaaggatgg gagctccctg aagacagcca gacatgtggc agggtgccca tacaatcggt   1440
ccaataccce agggctcagg cccctaaga attcctgcag attcctgcat tgtaggtgta   1500
ctcggttcag tccccttgaa ggggtgctct ccatcaccac tctgtcgatc ctcctcgcgc   1560
accccaagtc tcgggccgtc gcttaatcgg agccaaagtc tcgcattggc tcctggagat   1620
tgagggaaag atggtgaaaa aatgcgagga aaagatgggg aaagcaaaga aagatttcac   1680
aggcaagagc ccagaatgga gaattcagaa gagaagggag gtaaggggag g            1731
```

<210> 6537
<211> 1383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (183)...(929)
<223> similar to gi5162875 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6537
```
acctgtctgg tagcagccat gaggcgcttg gtttcagtgt cctcgcgggc cagcgacggg    60
caggacgccc cgttcgccta gcgcgtgctc aggagttggt gtcctgcctg cgctcaggat   120
gaggggggaat ctggccctgg tgggcgttct aatcagcctg gccttcctgt cactgctgcc   180
atctggacat cctcagccgg ctggcgatga cgcctgctct gtgcagatcc tcgtccctgg   240
cctcaaaggg gatgcgggag agaagggaga caaaggcgcc cccggacggc ctggaagagt   300
cggccccacg ggagaaaaag gagacatggg ggacaaagga cagaaaggca gtgtgggtcg   360
tcatggaaaa attggtccca ttggctctaa aggtgagaaa ggagattccg gtgacatagg   420
accccctggt cctaatggag aaccaggcct cccatgtgag tgcagccagc tgcgcaaggc   480
catcggggag atggacaacc aggtctctca gctgaccagc gagctcaagt tcatcaagaa   540
tgctgtcgcc ggtgtgcgcg agacggagag caagatctac ctgctggtga aggaggagaa   600
gcgctacgcg gacgcccagc tgtcctgcca gggccgcggg ggcacgctga gcatgcccaa   660
ggacgaggct gccaatggcc tgatggccgc atacctggcg caagccggcc tggcccgtgt   720
cttcatcggc atcaacgacc tggagaagga gggcgccttc gtgtactctg accactcccc   780
catgcggacc ttcaacaagt ggcgcagcgg tgagcccaac aatgcctacg acgaggagga   840
ctgcgtggag atggtggcct cgggcggctg gaacgacgtg gcctgccaca ccaccatgta   900
cttcatgtgt gagtttgaca aggagaacat gtgagcctca ggctggggct gcccattggg   960
ggccccacat gtccctgcag ggttggcagg gacagagccc agaccatggt gccagccagg  1020
gagctgtccc tctgtgaagg gtggaggctc actgagtaga gggctgttgt ctaaactgag  1080
aaaatggcct atgcttaaga ggaaaatgaa agtgttcctg gggtgctgtc tctgaagaag  1140
cagagtttca ttacctgtat tgtagcccca atgtcattat gtaattatta cccagaattg  1200
ctcttccata aagcttgtgc ctttgtccaa gctatacaat aaaatcttta agtagtgcag  1260
tagttaagtc caaatagtgg caatggggtc ttgaattact accttttaat ttctatatgg  1320
aaaagaactc actttgacca acacttctgt aaattacatt acaatatagg ttccttcaca  1380
cta                                                                1383
```


<210> 6538
<211> 3750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3651)...(714)
<223> similar to gi4510377 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6538

```
ataacaaatt ttcccattcc caaggtttta aaaaacgccc ccggcccaaa ctttaaaatc      60
cccccccata aagaaaaaaa tattatttt cctcccccg taaaacttgg gccccccaag       120
gattctttaa aaccgcccc cctttttttt tttttgaga tttaacattg tacattttat      180
taaatactgg actttattac aacaaattaa tttacttccg atagaagttt cattttaaaa      240
aatgtggttg tgttcaaatt cttaattgac acttgttttg gggtaaacat cctattttta      300
ctggtggtat catcaatcat tatgagcaga aagattaatt ttgtataaca gaacaaagga      360
atttctcaag tggtccaata ctctatatat ataaagggaa tatactccca aagagtgggc      420
atgaccacag cagagtatat gatcagagaa catattgctt ttatggtata tatatatata      480
tatatatatc tctacatata acatcaagtc atgcacatta agtctttact acctactgaa      540
ggcttctacc ttacacatga aaattgttca tgtcccaggg tttggcatcc agccaaaatt      600
taaacaatga tgaagaatgg ctgtcaaact ggcttttcag accacccctg aaaagctgtc      660
agctgtaata tccatcctgg aatcgtggcg gaaagttcct gggagttgcc ttttcctgtg      720
ttttgatcaa gtctataata gctgacagta ctgcacagtc tctggattta gtgtcattcc      780
agtctacagg atgaggactt tcaatcttct cttgcagaag aatatctagt tcctttctta      840
attccttaac aagatgggca attcttgctg gagactgaaa tacaatccac tcatctacag      900
caatagtttc ctgatcgtta tccttctgga tggaaatgtc acctccaaaa aacaagagac      960
agtatgggga aacctctgtg cagtcataca agtatatact gcttgttctc atctttaggt     1020
gatagataag ccagttgtag tgaaagtctg tttgctccac attaacagat ttaggatgaa     1080
cagcaaccag gccatcggtt tttgtgtaaa cttttaccat ttttcttttt ttacccaaat     1140
ttagtcgaat tttagcaact ttgggatata aaccagcaca gatgacagct ttaattatct     1200
tctcattatc tgaatttata ttagattctg gatctttagg atttctactg cttacaaatc     1260
cagctccaag aagatgctca gcaaactgtc ctttcatgtt atgcagcatc tgcagtgtgt     1320
ttgaagacag aaaatattcc cagcaatagt cctttccgta tctgaaacca cgtcgcctag     1380
cctcttccca gccctcaaac gcattcacaa ctgttaagtg atcacttcta gtatcctttg     1440
ccaattcctt tcttcttgca tctgcaatct tttctttttcc cagtggaatg acaaatggat     1500
ctttgaaact gagactagca gcaatagtga gtactgggtc taagcagcag aacagtgctc     1560
caaaaagaat cattttccaa atatgtggct caacgggtaa tcgtgccaag tggactccaa     1620
gaggtgtcaa ttcttcttgt ttatccaaag cgttcagctc catcaggtgt cttatggaga     1680
gtaacactgc ctcatttgat ggtgggtcca ttaatctact cagaaaataa gcaattccac     1740
ctagccttaa aatctttatt tgtaaacaaa gttcttccaa aggagttctc aaaatttctg     1800
gcagttgata gtcatctaga agacttgctc taagcccatt atacagatga tagcaatggc     1860
caggttgaac tcttccagct cgaccttttc tctgtttggc attagcttta ctaacccact     1920
cagcggacat tgtactgata ttgttctgag tatcaaaatg cgtctctttt attttttcctc     1980
catctatcac ataaacgaca tcatctatgg taatgctagt ctccgcaatg ttggtagcaa     2040
ttactatttt ccgaacacca ggaggggttc ttttaaacac ctgtgtctgg ttaactgtag     2100
gcatcagtga atgtaaaggt ataattaaaa atttatctga tttaaacatt acttgtgaca     2160
tcaagagatc atgtaaagtg ctgatattgt cccagcctgg cagaaagacc agtatcgcac     2220
catcctcttc ttccaaaaca atgtatcgga tgagggcaac aatcaaattc agatcaactt     2280
tatcatcctc catcatttct ataacatcta cagtacttgc agaataccct cttcgcagtt     2340
cccttacata atctggccaa cgttctttat atattgcttc ttttcttct ttttcttggc     2400
tatttacatg cccttgcatg aaacccctct taaactggga tctgtgttct ttttgttctg     2460
gaacatacct tatttttca attacatctt ccaaaagata ttccacaacc ggaaaggtaa     2520
aaccaggtat gtgtatcatt ggacagttac caaaatattc tgaaaacttt tctgcattca     2580
atgttgcact catcaatatt acttcaagt cagatcgaaa attgagaagg tctttaacaa     2640
cagtcattaa aacatctgac tgcagatttc tttcatggat ttcatcaagt acgatatgac     2700
taacactgga caaatacggg tctgactgga gccactgaag gatgattcct gttgtacagt     2760
ataagataga accctgtttc cttggcaacc gactctggag acgaatttga tatccagtac     2820
tattaccact gccacaagat tctgccttt ctgcagctac tctttccgca actgaaatgg     2880
cactaattct tcttggctga gtacaaacta ttctgcaagc agatccttt cctctttcaa     2940
tgtagttatc caaaatgaac tgagtaactt gagtggtttt gccacaacca gtttcaccac     3000
ttattactgt tacctgatgg ttatcaatta aatttaccaa ttccttttgc attccatacg     3060
aaggcagctt ttctctgaaa tgctgcattt caatataccg aaggtcattt tttttctttt     3120
gtaaatcttc caataatttt tggtctaaag ttccatctgg ttcattttct tgcaagagat     3180
actcagaatc tcggtcaata tatgatctgt tcctgattct aaacattttt ttttcttgat     3240
ttatcaactt cttttcctgg atgtcaagtt tgttctctga gcatggtgtg ttcttagtag     3300
```

5183

```
aaacttcagt accgtatcca tgatcctcag gagcaaacca ggatatctgt gcttctgact    3360
ctttatcatt cttcgcttga acagaattca gtaactgtac aatttgttct tctcgtcgtt    3420
catccatgtg tactacagct ctctcttgcc tctccgcttc cttgttcttc tgcccctgtt    3480
ttttcgcgta ccacatgccg atttcgcggc ctttcaggtg cccgggatgc cggcccctgc    3540
cgcctcgacc acccctccg ccgccgcgc ctcctccgga gcctcggtta cctccatgac     3600
cccctgctgg ccccctcca tagcccccac cggagctgcg gggacccca tcacggcccc      3660
agttctgatg gtagtcataa ctcattgtcc tggcagacta caacccgtca gaaccagcaa    3720
ccgctggaaa tggcgtcccc cacgcgtccg                                     3750
```

<210> 6539
<211> 1783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (852)...(358)
<223> similar to gi5565635 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6539
```
ccgggtcgac gatttcgtct tcgtcgtcgg gggcctcgct gtaattctgt tcccattgtg    60
cccctacttc aagtactccg tcatgatcaa caaggccacg ccctacaact acccagtgcc    120
cgtccgtgat gatgggaaca tgcccgacgt gcccagccac ccccaggacc ctcagggccc    180
cagcctggag tggctgaaga aactgtgagc acctccactg acagaggcgg cccctcccac    240
ggctcccaat aaaaatgtga aaaccaaccc ccgaacgtga gcatgtgtgt gatcagaggt    300
gggaacaagt agacggtggc cggggtgagt gtggggtcag tttattgggc atgcgtcagt    360
caaaggctgg gctggccagg gtcgggtagg gcagcagttt gtctggaccc cgagaaaccc    420
aactggaatc cagggcctca tctgcttcaa agccaaagtc ttcctcaacc ttaatctgca    480
ccggggccag ctctggagtc agcgcatttc ctgctgggcg tccatcccgt ggcactcgcc    540
gcctcttccg cccactgggc ccctcaccgg gggctgggac tgccgggttt ctgggggtgc    600
aggagtcctt ctgggcgggg acagtgtctc tttctctgga ggctcattct ccgcattgcc    660
tggggtgggg gcatccgtgc cctggctgcc ctcatcctgg caggcaggag ggggaggtag    720
gtgatgggtg ggtcctgagc tcccagttcc tgacctcct ggaggcccaa cactcacctc     780
cagcacaatg gtgaactggc tggcccggta gtcatccccg taggagtcca gcactctcat    840
gaggaacctg ctcagggga gaagccacca acggaataac ttatctccta gcggctgggg      900
aaaagggcca caggatagag ctcagctccc actccactca acgccaaagc tgtcctggag    960
ccagacggtc ctgagctctg gcactggagg cctgggagcc atgcccttga ccagccttga    1020
gacctcgagc aagacaaggc aaccattctg aggctgagtt tcctgctctg caaacgacat    1080
gacaccctcg gctggatgtt gcagcggtga cactgaagta gtgacaccag acgatttctg    1140
tacttaatgt gatgtcagca cttagtaaac attcatatgt gagttataat ttttattgat    1200
aactgaagag aggggagtac agaacgctcc tcctaatgac ctcacctctt ataaacaccc    1260
ccttctcttt tttccccagc ccctgcctcc agagttcctt aaggttcaat tgatggaatg    1320
cctcctctgc accagcacct gggcaggttt gttgttgttg ttttgcgacg gagtcttact    1380
ctgtcaccca ggctggagtg cagtggcatg atattggctc accacaacct ccacctccca    1440
ggttcaagcg attctcctgc ctcagcctcc tgagtagctg ggattacagg tgcccgccac    1500
cacacccagc taattttgt atatttagta gagacagggt ttcaccattt gggccaggct      1560
ggtcttgaac tcctgacctt gtgatccacc cacctcggcc tcccaaagtg ctgggattac    1620
aggcgtgagc caccgcgccc ggcctattat gcttttaaga ctcagaagta tctggccact    1680
actgatgttt acaaagtagg aaatttagcc tgtagttcca gctactccag aggctgaggg    1740
```
```
                                                              5184
```

ggtaagatca cataagccca agaggctgca gtgaggtacg att   1783

<210> 6540
<211> 1755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1756)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1030)...(349)
<223> similar to gi5731817 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6540
tttttttttt ttattttttg aacggtcaca atatgcattt attaatgaat gtatttatac   60
acaatacaaa cgtgcgggga caccgtcccc ttcacagccc agaacccagg gtcagaagat   120
gagggatcca gcctcagagg ggagatatgc gacttcccaa gagcagttct tggcctggga   180
ggggccatga gagtgcaaga cacggggccg tggccggggc ggggctacgg gaacggggcg   240
tggccggccc ctgaggttac tataggggaa tgggcccccgg ccaggtcccc ttttctttgg   300
ggcagtggga agacagcggg gcccacggca tagagctgct acacgtaggg cgtttctgcc   360
gtatttgcca aagctgctgt cgccttcttg gtccgaggtg gcgacgggca tcacggacac   420
gggagcctgg tagggccgcc gggcgctggc ggctgggtcc tcgtcagagc cgcagcagca   480
ggcggagcag aggcagaggc cacccaggat ggagatcagt gaggcgctcc accccaggta   540
gagggcgggg cccagctcgt acttggttcc ggggtacaag gggtccgaga agtccccggg   600
tgatgttgaa ggcgtaccag gaggatggcc accatcccgc agatacccgg caagattgtg   660
aggggcccct gcggtggccg ccagcttggc tttcctggag agctccaggc ccccaatgtt   720
ggtgcagcgc aggcccgcta tgcctagcaa gaggccgagg aagcccagga ggatggcggt   780
gatcatgagt gcccggcagg cctgaatata cccagagagg gccagcatgg acgggaactc   840
ccagcagttg tagacgccca gggagtcggt ggcacagcta aaccagaggt tctcgaagat   900
ggtgttggtg gtgatgacgt tcccgtgcac agtggacact cgccagtagc tgtttggcag   960
agtcaccccc agcatcagca gccccacagt tgccatgaag aagccaaagg tttccacagc   1020
catcgacatg gtgggatgca ggaccctggg gggctggtgc cccagagagg gggaggggca   1080
gaaccccctag ggaactggaa ggggctgcgg ctaaggaggg ttgtccaggc aggctggggt   1140
ggaatcagcc tcagcctctg cctgcctctt cctcgggctc aggtccgtct ccactttctg   1200
cctccctcct gctctgtggg tctctctgct tcctggcagg tcagaggaat gagctaagcc   1260
tgcgcgcggc agcctggagc cactgacgga tacagccaag gaggggcccc caagggaggc   1320
actgggaact gaggggaagc gtctgtctct gactcagctt tcattggggg ccaaagaacg   1380
gagtaagagg gacaaggagt gaaaagatga cagagacaga cgtgagagca ataagggaca   1440
gagacggaga gagaatgaac agcagccttc agtggtgaag gacggaggaa ccacgagaac   1500
aatctaagat actcagacca aggggttggg gcgtatgagt ctcttaagga agatcaagct   1560
ggaatgaggg gatgggaggg taggagaccc acagctctgg gctccatcca gcctggaatg   1620
gaactcggcc ccaccatcca ttcaccaggg aactcagacg ggagagtttt agtcccctga   1680
gcttctgctc tgtcagtgac aannccgnct gcttcgnnnt tccnccgcnc tggcctagtg   1740
tactgcaaat cgagg   1755

5185

<210> 6541
<211> 2426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (275)...(1391)
<223> similar to gi5649170 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6541
```
agcctcgacg cactgatttc ggcacgagga ggtgcaggcc aggggccgta aggcctggag    60
ggcgccagcc gggccggcgg gcggggtgat tgaaccgcgt tccctggagc tggaggctcg   120
ggggaaaggg ccagcacgga gcgggcgctc ggttgctgcg cacaaaggct gaggctccaa   180
gagctgcagg gcgtgtttgg daccccagag tcagaaggag tgagaaccct gaccectaat   240
cccactgcat ccagccaata ggagcccagc caccatggcg gagctgcagg aggtgcagat   300
cacagaggag aagccactgt tgccaggaca gacgcctgag gcggccaagg aggctgagtt   360
agctgcccga atcctcctgg accagggaca gactcactct gtggagacac catacggctc   420
tgtcactttc actgtctatg ggcacccca aacccaaacg cccagcgatc cttacctacc   480
acgatgtggg actcaactat aaatcttgct tccagccact gtttcagttc gaggacatgc   540
aggaaatcat tcagaacttt gtgcgggttc atgtggatgc ccctggaatg gaagagggag   600
cccctgtgtt cccttttgga tatcagtacc catctctgga ccagcttgca gacatgatcc   660
cttgcgtcct gcagtaccta aatttctcta caataattgg agttggtgtt ggagctggag   720
cctacatcct ggcgagatat gctcttaacc acccggacac tgttgaaggt cttgtcctca   780
tcaacattga tcccaatgcc aagggttgga tggattgggc agcccacaag ctaacaggcc   840
tcacctcttc cattccggag atgatccttg gacatctttt cagccaggaa gagctctctg   900
gaaattctga gttgatacaa aagtacagaa atatcattac acatgcaccc aacctggata   960
acattgaatt gtactggaac agctacaaca accgccgaga cctgaacttt gagcgtggag  1020
gtgatatcac cctcaggtgt cctgtgatgc tggtggtagg agaccaagca cctcatgaag  1080
atgcagtggt ggaatgtaac tcaaaactgg accccaccca gacctcgttc ctcaagatgg  1140
ctgactccgg aggtcagccc cagctgactc agccaggcaa gctgaccgag gccttcaagt  1200
acttcctgca aggcatgggc tacatggcct catcctgcat gactcgcctg tcccggtctc  1260
gtacagcctc tctgaccagt gcagcatccg ttgatggcaa ccggtcccgc tctcgcaccc  1320
tgtcccagag cagcgagtct ggaactcttt cttcggggcc cccggggcac accatggagg  1380
tctcctgttg aatggccctt gttgccctag agtgggaccc agccctcacc tcccccagag  1440
ctaacctggg aggtgctgaa ggggcattgg gccaccgtaa gcaagggaaa aagggcagat  1500
catgcgggga gatgaccttg atctttgatt gctaccctaa ccttgacctt taacccgtga  1560
ttccccccag ctcctggaag agatgtccta atatctctta gggacccaga cccctaaatt  1620
ctcctcctcc cccattttga tgttaaggtg gagagggcat atgcatcctc tgtcctgatc  1680
taggtgtcta tagctgaggg gtaagaggtt gttgtagttg tcctggtgcc tccatcagac  1740
tctccctact tgtcccatat ttgcaagggg aggggatttg gggctggggc tccattcacc  1800
aaagctgagg tggcttctca ttaacccttt aggactctga agggtatgga cctacgtgaa  1860
tgtgtgtcag ggggagactt gctggtgggt tagtggtcct caggatgtga tagaaacatc  1920
cagtgtaaaa aggaagttgg aatgggagtt ggcgggcagt gaacgagtgt ggggaaggat  1980
tggtgctggg gcaacaggaa ggggcctggg gccgtttggc tgcactaact ttggtagctc  2040
agtgtgcatc tagagtggga ctggggaggg agctaagctt gggctgggct gcttgggct   2100
tggcataggg tggaaagggc taccctgggg ctctgaccac actgtagtat gtgtggaggg  2160
tgccctcccg tctcccacaa cttctgctat aacaataaac tgtagaggaa tctgagtacc  2220
gttattattc tttgtctagg tgtgcctgca tcatgctcct cttcctatct tctccctgtc  2280
```

```
cacgtctcat attctcttct caaagtgata taaaccctgg gagagggcct ttgtggcata    2340
ggcacttcac aaaatatgac cacatagaaa ctggctcttt tccaatacaa cggtgttgcc    2400
ttgatattgg agtattttta agcctg                                        2426
```

```
          <210> 6542
          <211> 1160
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (999)...(114)
          <223> similar to gi5679727 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```

```
          <400> 6542
tttttttttt ttgcagataa tttctttatt gaaactatca ggaagtttta ctatgaaatt     60
ttacatacat gatggaaagt ggaagacata taccaattat attccaggaa aaaatacttt    120
aatagtattg ttatatagtg tattggctaa ttccagtgga tcctcatctc tcactgctga    180
cattatctcc aatatttgaa ttatatggca gggttcattt ctgtctttta agcagtgccc    240
actttcccac ttcttttttgg taggaaatgc agttcttata tattttgatc cagcatgtgt    300
acttttgact ccacaccaag ggtgcatctg tctcaatcat taattttttca ctaggaattg    360
acttcaaaac ttccaaatta gcttcagttt tcagtgagca accattaaat cctatataaa    420
gatccaagtc aatcaaagca gctggctgct tccttggtac catcaaatga atgcaccact    480
ccccctacac accgatctct atttctttttc attatgtcca aaaaattcca gccatgtgag    540
tttcgacaat ggaggaaaca ttggtaattt tgtttgttct gacagttcaa actgtttttc    600
aaaatatttg agttgagtat ctttgggaca aaactgcagt cggtcaaaat caagtccgca    660
ttctcctatt gccacaactt tcccttttatt gttttcagca agatttagca actcctttaa    720
gtaaagatca gggttattct tttcaaattc accacatctt gtaggatgac atccaactgt    780
actgaaaaac ataccatttg tttgtgccaa atgcagtgca tctttactgt cttgtagatt    840
tccacctgta atcataaact ttttaacacc aatctcgaca gctctcccta ttacatcctg    900
taagtcatct tgatgctttt gaacccccct ataaattcct ctgaacatag ggtcagtcaa    960
gttgatacca atatctggag gttcaaggac ttcgggaacg gaattggaag gtggcctctc   1020
gcttcacaga atcctatggt agacccgggt tcaaatccag gcttcgccac ttatggccgg   1080
gagaccttgt agagttgctt gtcgggtctg ggcgtcagct ttttgtttag taaaacggac   1140
gcacgaccag cgcagagggt                                               1160
```

```
          <210> 6543
          <211> 1483
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (34)...(1200)
          <223> similar to gi495223 in the genepept database release 114,
```

Run with FASTXY 3.3t00, default parameters

<400> 6543
atcgagacca tagaccacgt cggggaattc gccatggcag cccaggcagc tggtgtatct   60
aggcagcggg cagccactca aggtcttggc tccaaccaaa acgctttgaa gtacttgggc   120
caggatttca agaccctgag gcaacagtgc ttggactcag gggtcctatt taaggaccct   180
gagttcccag catgtccatc agctttgggc tacaaggatc ttggaccagg ctctccgcaa   240
actcaaggca tcatctggaa gcggcccacg gagttgtgtc ccagccctca gtttatcgtt   300
ggtggagcca cgcgcacaga catttgtcag ggtggtctag gtgactgctg gcttctggct   360
gccattgcct ccctgaccct gaatgaagag ctgctttacc gggtggtccc cagggaccag   420
gacttccagg agaactatgc gggaatcttt cactttcagc cgctgtgtcc ccctccccca   480
gttctggcag tacggagagt gggtggaggt ggtcattgac gacaggctgc ccaccaagaa   540
tggacagctg ctcttcctac actcggaaca aggcaatgaa ttctggagtg ccctgctgga   600
gaaagcctat gccaagctta atggttgtta tgaggctctc gctggaggtt ccacagtgga   660
ggggtttgag gatttcacag gtggcatctc tgagttttat gacctgaaga aaccaccagc   720
caatctatat cagatcatcc ggaaggccct ctgtgcgggg tctctgctgg gctgctccat   780
tgatgtctac agtgcagccg aagccgaagc catcaccagc cagaagctgg ttaagagtca   840
tgcgtactct gtcactggag tcgaagaggt gaatttccag ggccatccag agaagctgat   900
cagactcagg aatccatggg gtgaagtgga gtggtcggga gcctggagcg atgatgcacc   960
agagtggaat cacatagacc cccggcggaa ggaagaactg gacaagaaag ttgaggatgg   1020
agaattctgg atgtcacttt cagatttcgt gaggcagttc tctcggttgg agatctgcaa   1080
cctgtccccg gactctctga gtagcgagga ggtgcacaaa tggaacctgg tcctgttcaa   1140
cggccactgg acccggggct ccacagctgg gggctgccag aactacccag gctcctccta   1200
ggttgaatca gctgaggcag cacctgatga agaaactcag gaagacagcc ccacatctct   1260
aaggagaaat gaagaaaagc aaatcctgct ctctctactt tttcacctcc ctctccccat   1320
gttccctgcc tggtttgctg ttgatctgtt gattgactta gactgtaagc gcatggggca   1380
gggccagtca ctttcttctc atgacagagc tcactgcagg gctgtgctcg gtgctaggga   1440
agcagcatta gaataaaacc ccacctggat gcaaaaaaaa aaa   1483

<210> 6544
<211> 1422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(866)
<223> similar to gi|80098 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6544
gagagatgct gccgctgctg ctgccgctgc ccctgctgtg ggcagggccc tcgctcagga   60
tgcaagattc cggctggaga tgccagagtc cgtgacggtg caggagggtc tgtgcatctt   120
tgtgcactgt tcggtcttct acctcgagta tggctggaaa gattctaccc ctgcttatgg   180
ccactggttc cgggaagggg tcagtgtaga ccaggagact ccagtggcca caaacaactc   240
aactcaaaaa gtgcagaagg agacccaggg ccgattccac ctcctcggtg atccctcaag   300
gaacaactgc tccctgagca tcagagacgc caggaggagg acaacggtt catacttctt   360

5188

```
ttgggtggcg agaggaagaa caaaatttag ttacaaatat tccccgctct ctgtgtatgt    420
gacagccctg acccacaggc ccgacatcct catcccggag ttcctaaagt ctggccatcc    480
cagcaacctg acctgctctg tgccctgggt ctgtgagcag ggaacacccc ccatcttctc    540
ctggatgtca gctgccccca cctccctggg ccccaggacc ctccactcct cagtgctcac    600
gatcatccca cggcctcagg accacggcac caacctcatc tgtcaggtga cgttccccgg    660
agctggtgtg accacggaga gaaccatcca gctcagtgtc tcctggaaat caggaaccgt    720
ggaagaggtg gttgttttgg ccgtgggggt agtggctgtg aagatcctgc ttctctgcct    780
ttgcctcatc atcctcagtt tccacaagaa gaaggcggtg agggcagtgg aggttgagga    840
gaatgtatat gctgtcatgg gttaatctct caggcctcca gactgtactt ccagatgtct    900
cctcatccag ttcctccaca gtctgaatgg ccatgtttct tcttcattgc tggagaatga    960
agtgcaaatg ccactgcctg gactgaaggc ctttcacgat ctgtcttctg ctggactctg   1020
ctcctgatcc cccttctcct tgcatcaccc gaagtctccc tacacccacc aggccaagcc   1080
ctctgtgatt ctgagacttt gcatgtgtag ttacttctcc tgaaatggcc ttcctcccca   1140
ttcctgccaa tccaggtcct tatcatcctt caggttgtct aaatgtcat ccaggtgtgt   1200
gtatttttat gtaatccttg tatgatatta agcggagatg tggcatttgt tcattaattt   1260
gtagacatat tcagtaacca tactgaatac atataatgac tatgtgccag catttccgta   1320
tgtgcaagaa gttcatcaat agatatagac tcaaagagct ctgtcatcaa gctgttgttc   1380
tgaagagcag aaggatacaa ataaaagaa ataagtaaaa ta                       1422
```


        <210> 6545
        <211> 3120
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3065)...(791)
        <223> similar to gi3687445 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6545
```
cgttcaaaat aaaaatgttt ttaaaagtgt aatttccttt ttatttgcat ctgtttatga     60
ctgaaaaaat gactagttat tatgaagaca ctactgttga agatggatat tttaacatgg    120
agtttcaaca aaattacttc ttgagacaga gctgatgtgt tttttaaata acgtgatttt    180
aagcatatat ttgaacaaaa ctaaaacatt tagtattatg aatatgaaaa aagatcagta    240
aatcaatgta ctcttctagg ctgaattaag gtagactatt taaggtttca aaaaagtttg    300
gctggggcag aataagtttt acaaaaccca tgccatccaa aattaagatg acatgtagca    360
gcaagaagta ttccaatgtc tcataaccag ttctcgcaag caatgtgtat tccttacttt    420
aaggaagtgt caaacaaata gaaaaatctg gaagaattta ctaagtgtaa taaattagag    480
gtaaatcgta ataaagaat ttatgtctca caaaaatatt cacaagtggg agttttcttc    540
taccaacttc tcagagtcct tctagccccc tcttcacttc tgaaagatgg gatttaccaa    600
aatctggttt acatttaact tttcagggac acatgacctg aaaagaaaga tgtcagataa    660
tactgacatt gcctcatgca ctttctttgt atcagtcctt cttctgtaag taatcagaat    720
tgggtccaaa tggcatagaa tcaaacatta tgtatcatgc caaataccac ttcctgccca    780
acaaaatttc attttttctcc agtaatgaag aggtggacat tcttgttgga ctgtagcatc    840
tgtgccgccc gctccacacc aaccacggca gctaacctct gggcatcata tttggagtag    900
agaacagtgc aggtccacgt ggcctcttct cctctgttgg tggctctcag catattacag    960
atttcactgt aaaagtgtgg atatgtcggc agttcataga aaatcaggtt cctgatgcct   1020
tttattgtat acctttgta gaaatggaag cgctctgtga aaagtagaaa ctgtttctct   1080
ccttgaagga agaagtgtct ggccctggag acaccagact tctgcgtgta ctcgcagatg   1140
```

5189

```
tgggtaaaat tcaattcctc cttcttgaag taatttcgaa gacgcacgaa gtcaaagtag      1200
gaggggatat agatgagcgt gtgagacatg actgcatcac gatactgtgg caaaatcttg      1260
ttcacaaaaa agttaaacct ggcatcaatc actgaagcta ggttttcagc ttccatcctc      1320
tggaagacat gtgggagctg caccaggaca tgactgatag agcctgtcat tgggacattc      1380
ctcacggcca cctggccttg catgttgaca cagtacttgt tgaacactga gttgatctgg      1440
gcatcctgaa gggccccaaa tagcagtgtc tggcgatagt acttggacca attattgagg      1500
ctccacatcc gcactcgaga aaagtctacc ccatgtgagt ccaggggtag taggttcatg      1560
tgattcatca aatgcaggac atgctcccag ttctgcatca ggtaaatgtc agcttgatca      1620
atgatgagaa gctcgataga agacagaaag tcaaaatctc tcttcttctc tccttctcca      1680
ccaatgatgg tcctcaagcc caggggggaa gcaatgagga tatccgagga gtaaaacggg      1740
gcatagagtc ggatgcttct ctgaagtatt gccactccaa tcctgaagtg gtcatcaata      1800
ttgcccacaa atacggcttc ataatcctca ggcctcttca agttgggtgg tctctcctcg      1860
ggatctgatc catattctcc ctgaaacctc tttttgttgc tcacaatgat tttcttcttg      1920
ctgtcaccct cgaggaggct gatgaagagc tgcaccaccc gcaaagcagc ttcccggaat      1980
ggcaccacta tcagtacctt gggccttgtt aacccttggt ctctgaagtc atcatcatca      2040
cccactccaa acttctggct tcggcgtctg ctattgttgc caagcacctg ggcattggct      2100
ttgaggatgt gatttatcac atgcaggcaa tacacatggc ggatctcttc ccgttcttc      2160
agagcagtcc tttccgggta gaacaggtcc ccggtaaaga attcataatt aagaagagtt      2220
ctttctggag gggggtgaat gggctgcttg attttggggg accagatagg aactggctgt      2280
tggtcttagt ccaggtggat tccagaggct tctggagatg aagtgacttt aagtcaatat      2340
cctttggggg tttaaatgtt cccccttct gaaacttaga ggaaaagaaa agctggccca      2400
gaataggcca tttaagctcg tgggtagttt tgggatttgt gggcaacagc ctgaattgcc      2460
ttttctttca gttccttgtt cacatgttga agaaatggat cttgagaggc tttcaaagaa      2520
gagttgtctc cactttcctc ttctagaaaa ttggtttcca ggctgaacag tgactcgtgt      2580
tttgcatctg tgaactcttc aggggatgtt tgtgatgtgc ccggtggctc ttccccatct      2640
tcttttccct cagggtcagc agataaagct acattctctg gactttcagt agactctgca      2700
gccatctctt cttccacact gacatcgcta ccaccatctt catcgttcat ttctgcatca      2760
tctacaatac tgtcttcttc ctcttcctcc tcctcatctt cctcttcttc ctcagaaaca      2820
ttctttaatg tagcaagtag tctgtggtag ccagaaactt gttgtggttc actctctgag      2880
tcgctttcag aatctgaaga atctgaactc tctgacagtt gacaaatctg tggctttgct      2940
tcctttctgg aaaccctgtc atagaaggga tgctcctcgc cgaaatctcg aagatgtttc      3000
ttctgctttt tagttagggt gttgagtagc tggctctggc tccggctccc gcgtttgccc      3060
atagcgaaaa cgtcaagttt gcccacttgc aagagtcgcg gtttttccacc aggaagttgt      3120
```

<210> 6546
<211> 2848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2738)...(48)
<223> similar to gi895840 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6546
```
tttttttttt ttgaaattgt aaatgcccag aaacttccat tgtattaatc aggagttagc       60
gcagtacagg caccacgtgg ttgtctccag gagcttgagg ggcctgagca gactgggggg      120
atatcccctc cccaggctg ggcccactgg ccaccttct gcccaggggc tgaccctcgg      180
gccccatccc cagcagccca aaggctgtgt tgaagaggtt gatgggagtg gagccatcgg      240
```

```
tgatgagggt tgatttcagg cccagggact ggagcagttt tacctgcatc tcaggcccag    300
ccacagcaag gtccctgatg gtgctggggc ctatggcctc tgtcatctgc ttgaacttct    360
tcacctccac ctcagccagc tgctgagcct tgctcacctc cagctccagc tgggcccggg    420
catagaccag ttccagctct cggaccttct ggaccctctg gagctcagcc tccgtttcaa    480
tggccaaggc ctgtgctttt agcttggcct gcagcacgga cccttctccc tcaatccggg    540
ctgcctccgc acgggactcg gcctccgcct tggcagtccc ggtgctctcc acggccatgc    600
tcagagcctc cagctccaaa agttccttgc gagctttctc ggcttctgac tggtccagga    660
tcttctgccg ctcaagccgg ccgcgggctt cctgctccag tctctgagcc tcatgcttgg    720
ccgccgcttc ctgggagttg gtggtgatct cgatggccag ctggacgctg cgttgcaggg    780
cgtcccgggt cctctgatcc acaggctcca ctgactgcac gtccacactg ctgaccacca    840
gcccgttttg ggggaagaca gcctggtccc ggggcctggg cagggccatg ccatcggggc    900
ccttcgcttc cgaggtctca aagccaaaga cagcagtgcg aatgatgcgg gctgagttct    960
tatggaagtc atcgaaagtg acagaggcca cggcccccg cacccgggat gcgatggctt   1020
tgcaggcatc acctacaaag tctggcactg aaaagagctt ggccgtctct tggggtcct   1080
tccggtcatt caccctcaaag tgccagttgt aggccagctg cagttgcagc ctggcatgat   1140
ccgccgtttc gatggtgatg acgtctgtga agaagtcagg ccccagcagc aggcagagcg   1200
cacggcgggc atggggacgc ttgggccgcc cagctgagag ggacaacact gtgaactgct   1260
cctcaggacc cagcgacacc agctcaggcc cgaagaccac gcgggctcgc ttctctcggt   1320
agtcgtacac ctgcaccgca gcgttgtggg gcacgcggta gctgaccaca cgggtcttgt   1380
tccggggcgc caagggctgg aggctcttag ctgtgtcctt ctcaccctg tctgccagag   1440
ggtcctgccc cttgttcagc agctcctcca ccccgggagg cagctctttc tcccacagga   1500
cttcgtcctg ggtcagcatg taggtgcttc caatcacagc gcgcacctt ccggtcttga   1560
catcctgcac atagatgccc tcgttctcgt ctagagggat ggcctggcgc tcctccacca   1620
cctccacttt ggcagatggc acatactcca ggggtccgcg gatgagccag tggtccccag   1680
cctggtgtga gaccttctcc tcatcctccc cctcctccag gggctgcagg ccctcagca   1740
gcagccctg ctgctccgac agcacataca catcctggat gccttgttcc agctgctctc   1800
ctggctggag gaaaaaagac ttctctccct tgaccacgcg cttctgcccc agctgattct   1860
tgccatccgg tccgacaggg tcgagaatca cgcagtagtt gtgggggccc agggtggtga   1920
tgggcacaac ccccagcacc tcctcgtgga catctggcac gtgggcctct gtgtcctgca   1980
ctgttaccag ccactcctcc ccagtgcggc gggacactcc cctgaagtcc cggaagttcc   2040
gccgagcccg gaggtgcagg gctgtctttt ccgtaaggat gacggcgtcc accaaatcca   2100
gaacctcctc aaacaccgct gggaggtacg ccctactgt ggtgaccagc cattcttccc   2160
ctgtcaccct ctccttgccg tcccggtccc agcactcctt gcgggccctg agccgcagag   2220
cctggttctg cctgatgatg gtggcctgaa tgatctccac gacctccact tccttccggg   2280
ggatgtacgt gccaggtccc tcgaaaagcc actcatctcc tgccaccacc ttgtctccat   2340
ctttatcctc aaaatcaagc agcgccttta gatggagggc agtgttgggc agaaccacct   2400
gcaggggtgt gatgtccttt tccagcacct ccctgggta caggggaag gggtcctggg   2460
ccagccggat ctcgaggtca gcgtggcgaa gccgaacttg ccctgtgaca tcaaacagca   2520
ccaagccctg ggcatcccga gacacagggt tggccactgt gcagtagtga cgtgggggga   2580
cggtcaccat gcgcatgggg gcaaacagta ccctctcatt gtcctgccgg atgtaggtct   2640
ttggcccgac ctccacacgg gacacgttgc tgttctggtc cagcacatgg atatagtggt   2700
atggggggat gcggatgatg aactcttcag ttgccatggt gactcctaag cccagggctc   2760
acaagaagat gactggtagg tggggagac gacacaggat gaacctgggg agcatctaga   2820
agtgcaggta gctgcaacaa acacgaaa                                      2848
```

<210> 6547
<211> 1845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1846)

5191

<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1749)...(1447)
<223> similar to gi950411 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6547
ttttttttt ttccaccgtg ttcctggagc tgcccgctgc cctctgccct gtccgtcccc   60
ggcagagctg ggagccggcc ctcagcatga ccaccgaaac tttatttaca acacgaggct   120
ggagtaagag gggtgggatg gaggacagca gcagggccga caggaccta cttctgctcc   180
cgcctccaga cgatgaccat gccgctggcg tcactggagg ccagtaggct ctcgtcgcag   240
ttgaagctga catcaagcac aggtgcactg tggccctgca gcttgttgac agcagccttg   300
gccgcccgct ccacatcaaa gaagtgcacg cacatgtcct cactgcccgt caccacgcag   360
gcccctggc ggaaggacat gaggggacag aagatgctgc gcacaggatg tgagctctgc   420
tcgatgggga agcttctctt cagctgcagg gtcccctcgt tgtctaccac cctgtagagc   480
agcaacttgt tgaggcaagc attgatgagc agtgagggat cccgggcctc gcggctgacc   540
caggaccggg ctgagatgct ggtcacaggg ctcccctcat gcaccaccaa acgcttggct   600
ttggtcagct tccctgtggc catatcaaag aggaaagaga agacactgcc acggtcatca   660
cccgcccaga gcagccggcc aggggcatca aaggacagag caaggacacg gcctgtcagc   720
ttgctggagc ccccccttcac tttcttgcct gtggagatgt tcatgacatg cacgttgtgc   780
ttggcgttcc ccaccacagt gaggttgttg ttgacaggct ggaaggtgca gcagagcagt   840
tcagcgctat cggggtcagg gatctctcgg atgcagcgac catcctcaga ggcccagatg   900
cgcatggtgg catccagtga ggtggacacg aggatgtcat tggagaggga ccaggcgaag   960
tcggagacac cacgggtgtg gccccgtagc acgcgaagca ctgtgggtgg ggcaggcacc   1020
agctggcaca gggagatgct gccgtcgagt gagcagcagg ccaggcggtg tcggtcatca   1080
ttggcgaagc gcacccttgg gactgcctca tccacgtgct ggtcaaaaac atgatacatg   1140
cccgcaaagg catagttctc gctcagtgac gtgtccccgg ccatggcccg acttgcctct   1200
gctgctgacg tgggcaccac gctgccaggg ggcctgtcct catagacggc acggttcatc   1260
tgcgcctgca gctggtagga gcctctgctg acagaacgac ggtgcccacg ggcccccagg   1320
gcccgaggat catcctcaaa gtcctccatg cggtcaagag tagtgcggct actgcggacg   1380
atgctgttgc tataggcacg agcactgcct ggctcggaga ggggcccgta gcgctggccc   1440
agcagctgcc cccgaagcct caggtactgc cgacgcagcg ctggggggtg cccagccttg   1500
gcattctccc gcagcagctg gctgcgccgg cggatatact gcgtccgaaa ctgtggaaac   1560
gttggtgtgc ggtacgcgtt gtacctcgcg tccactgcta agacttgctg ccacaccgcg   1620
gccattcccc ggcctcctcc tctggcgtgt ccgcccgcgg cagcctccgg ggctgcctcc   1680
ggttcttgag gccccccgga gcggccctga gaccactgtc gccggttcct tctgtctctc   1740
ctcccttct caggctccag gcaagatggc tgcccctcgt gccaagctgg cggtctgngc   1800
cagggtcatc aacgggctca tcattggcgg gnccnnnggg actct   1845

<210> 6548
<211> 1627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (397)...(1289)
<223> similar to gi6018317 in the genepept database release 114,

5192

Run with FASTXY 3.3t00, default parameters

<400> 6548
```
cgactccgct gggccacccg cccctcaccc tcggcctgac ccagcctctc cgtgcctccc    60
ctagccgcct cctcccagca gtcccccagg agcgagctgc gagatgcccc aaatcggacc   120
cctccccagt tggaaaaaaa aaacgactcc tgacctttcc cagcctcctc ggtccactga   180
gggaacccgc agccccgggc ctcgagcaga ctgctgggac tgcggggcgg ccgggcgcgg   240
ggcctgaggc ggggcggggc gggtcgggtc gggggccttt aagaggcgcg gtcgccggga   300
ccgacacaga cgcggacagc gccgggactc gccgccccgg gactcgcgca gcccgcagcg   360
ctccggctcc tcctctcgcg accgccctcc gcagcgatgg acggagacgg tgacccagag   420
agcgtgggcc agcccgagga ggcaagcccg gaggagcagc cagaggaggc gagtgctgag   480
gaggagcggc cggaggacca gcaggaggag gaggcggccg ccgccgccgt acgctggacg   540
agctgcccga gccgctgctc gctcgcgcgt gctggccgca ctgccgcggc acgagcatgg   600
tgcaggcctg ccgcactggt gtgcctgcgc tggaaggagc tggtggacgg cgccccgctg   660
tggctgctca agtgccagca ggaggggctg gtgcccgagg gcggcgtgga ggaggagcgc   720
gaccactggc agcagttcta cttcctgagc aagcggcgcc gcaaccttct gcgtaacccg   780
tgtggggaag aggacttgga aggctggtgt gacgtggagc atggtgggga cggctggagg   840
gtggaggagc tgcctggaga cagtggggtg gagttcaccc acgatgagag cgtcaagaag   900
tacttcgcct cctcctttga gtggtgtcgc aaagcacagg tcattgacct gcaggctgag   960
ggctactggg aggagctgct ggacacgact cagccggcca tcgtggtgaa ggactggtac  1020
tcgggccgca gcgacgctgg ttgcctctac gagctcaccg ttaagctact gtccgagcac  1080
gagaacgtgc tggctgagtt cagcagcggg caggtggcag tgccccaaga cagtgacggc  1140
gggggctgga tggagatctc ccacaccttc accgactacg ggccgggcgt ccgcttcgtc  1200
cgcttcgagc acggggggca ggactccgtc tactggaagg gctggttcgg ggcccgggtg  1260
accaacagca gcgtgtgggt agaaccctga gcgaccctgc ctccgctctc ccccagctgc  1320
ctggagggc aaaggtcgag ggtagatagg ccttaactta gtccatagcg tcctcacctt  1380
ccccaagcca cacatcctcc tcccatccct tgctccgatc ccagcccctg agcagggaga  1440
gagaagtttt gttggcatag gtttgcttag gtagccggct tctagaatgt agatccgtga  1500
gggcgtgagc ttggactgga cccactgctg attccctgca cctagcacag tgcttgccac  1560
aaagtgggct ctcaataaat attatttgtc caaggaagga atgaatgaaa aaatggataa  1620
acactga                                                           1627
```

<210> 6549
<211> 1302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1033)...(222)
<223> similar to gi2662621 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6549
```
ttttttttt ttggcaggtt cagacaaaga gaaaatttta ttttcttatt cttgaaatga    60
ctgtacgatt tttcaatgtt aaagttcact ttcaagtatg atcaataaca agacatcaaa   120
tgtaaaaatt atgctgtatt atcattttct ccattgcttc ttaaaccact gaaagtaatt   180
```

```
tcacaattca ccacatttag gcatcttctt tttcactttc ttcatttttt acttctttag      240
gcaacaatgg atcaatcttc agtaataaac cttcacttgt tgaactacga aggaaagcac      300
gtaccacaaa gggacccaaa ttcagcggtc tgtgcctaca aacttcatta ataactgctt      360
gcagattggc agctatctgg tcacttgaca tatccaatgt tgctattttg gtctggagaa      420
agttctccct ttcttcatct accttaattt catgtccatt tttaaataat tcaagcattt      480
tggggatgtc acggccaatg gaatttcgag aaagctttgg atatttttta ttcagtttct      540
tccttaatcg attaagttca ggcattattt ctggaacagc tacgtaaaag tctgcaacaa      600
tttcatcatc ccaaatcttc tgtatcagac tagtgcctcc tgcaaatgca gctccatttt      660
cttccgctat tttgacctct gatgcattct ctgtaaatac agcaacttta ttgatttcgg      720
aagcaaatgg gtatgggcaa actaaggaac actgggtaaa tgggctccac gtttttccct      780
tcctttcccc cagtgccata tccagtgtca aatcaagata aacactttgc tttggactag      840
taaagtcaag aatttgaaat ttcttaagta agtgaacagc tttctccacc tcatatatct      900
gtctcgggta taagcgtttt aaatagacat catcctcagg ttcgccttcc atatagggat      960
atgctttat ttttctatt tcatcttttt tctcatctgg tgttttttct ttagcacctt     1020
ttttgtttt ctttgcagac tttgtagcag cagcaaaatg tctgttgggc actcggatgt     1080
ttacagaaca agaacaaagt gatgtctgat aaaccatctt ggaaaggcta tgcctttgat     1140
gatgtatcaa ggctctaccc atgcacctta cggccgccgc catgttgggc actccggatt     1200
gcgttcacga aattgttcct acgtttctac tgggaagaat taaaaaaagg ttccgttcta     1260
gaatccgcaa agagggaagg agttaaaaaa aaaactcgtg cc                       1302
```

<210> 6550
<211> 4254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (219)...(3436)
<223> similar to gi3882215 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6550
```
gactccgctt gacgaattcg gcacgaggat cgcaagacta ggcaacctcc agccagtccc       60
tgggtcgggc ggatcctccc agaggtggca caatggagcg atctccagga gagggcccca      120
gccccagccc catggaccag ccctctgctc cctccgaccc cactgaccag ccccccgctg      180
ctcacgcaaa gccagaccca ggttctgggg gccaacctgc tggccctggc gcggcgggtg      240
aggccctggc ggtgctgact tcattcggga ggcggttgct ggtgctgata cctgtgtatt      300
tggccggggc agtgggactc agcgtgggtt tcgtgctctt cggcctcgcc ctctacctgg      360
gctggcgccg ggtccgcgac gagaaagaac ggagccttcg agcagcgagg cagctactgg      420
acgacgagga gcagctcact gcgaaaactc tctatatgag tcatcgagag ctacctgcct      480
gggtcagctt cccagacgtg gaaaaggctg aatggctcaa taagattgtg gcccaggtct      540
ggcccttcct gggccagtat atggagaagc ttctggctga aactgtggct ccggctgtta      600
ggggatctaa cccccatctg caaacattta catttacacg agtggaactg ggtgaaaagc      660
cattgcgcat cattggagtc aaggttcacc caggtcagag aaaagagcag atcctgctgg      720
acttgaacat cagctatgta ggtgatgtgc agattgatgt ggaagtgaag aaatattttt      780
gcaaagcagg agtcaagggc atgcagctac atggcgtttt gcgggtgata ctggagccac      840
tcattgggga ccttcccttc gtgggggctg tgtcaatgtt cttcatccga cgcccgaccc      900
tagacatcaa ctggacaggg atgaccaacc tgctggatat cccaggactt agctcactct      960
ctgacaccat gatcatggac tccattgctg ccttcctcgt gttgcccaac cgattactgg     1020
tgcccttgt gcctgacctt caagatgtgg ctcagttgcg ttcccctctg cccagggca     1080
```

5194

```
ttattcgaat tcacctgctg gctgctcgag ggctgagttc caaggacaaa tatgtgaagg      1140
gcctgattga gggcaagtca gacccatatg cacttgtgcg tttgggtacc cagacattct      1200
gcagtcgtgt cattgatgaa gaactcaacc cacagtgggg agagacttat gaggtgatgg      1260
tacacgaggt cccagggcag gagattgaag tggaggtgtt cgacaaggat ccagataaag      1320
atgactttct gggcagaatg aagctggatg tagggaaggt gttacaggct agcgttctgg      1380
atgattggtt ccctctacaa ggtgggcaag gccaagttca cttgaggcta gaatggctgt      1440
cacttttgtc agatgcagag aaactggagc aggttctaca gtggaattgg ggagtctcct      1500
ctcgaccaga tcccccgtca gctgccatct tagttgtcta cctggatcgg gcccaggatc      1560
ttcctatggt gacctctgaa ttgtacccac cacagctgaa gaaggggaac aaggaaccca      1620
accctatggt acaactgtca attcaggatg tgactcagga gagcaaggct gtctacagta      1680
ccaactgccc agtgtgggag gaagcgttcc ggttcttcct acaagaccct caaagccagg      1740
agctcgatgt gcaagtgaag gatgattcca gggccctgac tttaggagca ctgacgctgc      1800
ctctggcccg cctgctgact gccccagaac tcatcctgga ccagtggttc cagctcagca      1860
gctctggtcc aaactccaga ctctatatga aactagtcat gaggatcctg tacttggatt      1920
catcagaaat atgcttcccc acggtgcctg gttgtcctgg tgcttgggac gtggacagtg      1980
agaatcccca gagaggcagc agtgtggatg ccccacctcg accctgtcac acgactcctg      2040
atagccagtt tgggactgag catgtgcttc ggatccatgt attagaggcc caggacctga      2100
ttgccaaaga ccgtttcttg gggggactgg tgaagggcaa gtcagacccc tatgtcaaac      2160
taaagttggc aggacgaagc ttccggagcc atgttgttcg ggaagatctc aatccccgct      2220
ggaatgaggt ttttgaggtg atcgtcacat cagttccagg ccaagagcta gaggttgaag      2280
tctttgacaa ggacttggac aaggatgatt ttctgggcag gtgtaaagtg cgtctcacca      2340
cagtcttaaa cagtggcttc cttgatgagt ggctgaccct ggaggatgtc ccatctggcc      2400
gcctgcactt gcgcctggag cgtctcaccc ccgtcccac tgctgctgag ttagaggagg      2460
tgctgcaggt gaatagtttg atccagactc agaagagtgc ggagctggct gcggccctgc      2520
tatccatcta tatggagcgg gcagaggacc tcccgctgcg aaaaggcacc aagcacctca      2580
gcccttatgc tactctcact gtgggagata gttctcataa aaccaagact atttcgcaaa      2640
cttcagcccc tgtctgggat gagagtgcct cctttctcat caggaaacca cacactgaga      2700
gcctagagtt gcaggttcgg ggtgagggca ctggcgtgct gggctcatta tccctgcccc      2760
tctcagagct cctcgtggct gaccagctct gcttggaccg ctggtttaca ctcagcagtg      2820
gtcaggggca ggtgctactg agagcacagc tagggatcct ggtgtcccag cactcgggag      2880
tggaagctca tagccacagc tacagccaca gctcctcatc gctgagtgaa gaaccagagc      2940
tctcgggggg acccctcac atcacctcct cagcccaga ggttccggca gcgcctaaca      3000
catgttgaca gtccccttga ggctccagcc gggcctctgg gccaggtgaa actgactctg      3060
tggtactaca gtgaagaacg aaagctggtc agcattgttc atggttgccg gtcccttcga      3120
cagaatggac gtgatcctcc tgatccctat gtgtcactgt tgctactgcc agacaagaac      3180
cgaggcacca agaggaggac ctcacagaag aagaggaccc tgagtcctga atttaatgaa      3240
cggtttgagt gggaactccc cctggatgag gcccagagac gaaagctgga tgtctctgtc      3300
aagtctaatt cctccttcat gtcaagagag cgtgagctgc tggggaaggt gcagctggac      3360
ctagctgaga cagacctttc ccagggtgta gcccggtggt atgacctgat ggacaacaag      3420
gacaagggca gctcctagga gctggcgagt cccagcctga ctgctctgtc ttcctgcctt      3480
cgtctcgctc catcaccgcc tcaatgtgat gagcctaaag ctagggtcca agggcagagc      3540
ctgtgccctt cagccctttc acctaacagg cccatattcg ggcctttgcc tgaccaaaga      3600
gaagaaccgt atgttccctt tactgcacgg cctttatcct tctgggcccc tggggcgggg      3660
acctgagctg gctgtttcct gctttgcctg cacattgttc tcccttcctc ccaactcctc      3720
agggccttct gtatctgtgc ctggccagtg gcagcactag cagtggtatt agcttatgcc      3780
aaatacagct ttggaaggat cttttttttct ttaactagat ggtcaccttc ttccctacca      3840
cacatgggtg ggaaggtgga caggctaacc tctccagctg tgagcctctt agactactgc      3900
atgtagcaaa tgttcagcag ctcaggcccc catgtccagt tctgtcccca ctgtcctcaa      3960
ccctgtcctg aaaattctac tgctttgatg gctggggcca gtctcttgtc actttggaaa      4020
ctgaggacgc gtggattcta ctcaagcctc caagtagtgg catatcagtc ttggagctcc      4080
tagctggtga tacggagagg gctttggagg acttgggaca gcagggccaa ttttttttgcc      4140
caagtgccta ggctgctaac tcactgacta gaacttaatc tggtacttta cagttttgca      4200
ccaactctgc caagccactg gatcttacat taaacatcat actcaaaaaa aaaa             4254
```

                                    5195

<210> 6551
<211> 1871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1833)...(309)
<223> similar to gi4914604 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6551
tttttttttt ttgacagatc ttgacaatgt ccttttaatt gtactctttt caaaaaatct   60
cctttctcag ttaaaaaagg acaaggcatg atgaagacct gctctgagcc cattactggg   120
cggtgatctc ggtcctgggg gaggccaggc cgggactctt ccaaggcctc ctccctgggc   180
agtcccagca atggggccag tggcagggca ggttctccct gccagaaccc gatcctagcc   240
cttcagaagg actggacctc tgtgtccctt cagtgggaag ccaccttgga cacacgcagt   300
cattcaggtg gacataaggc cactcttctc gcccttgacc ttgaggaact cagccatgct   360
ggagaaatac ttctggttgg cctcagccac cttcttctct gccgcctgtg ggttcacaat   420
ctccaggccc tggagtgggg tgaaggccac gctggaggcc gtgcccgagg agcggtcgcg   480
gatggtggac ttcccgccat atacgacgct ctgcttctgc agggtccgct gcagcgtctt   540
ggagatcctg gccttggtgg cctcgtttac ctgtgtctgc cgcacacgcc cactgcccga   600
cttgcccagg tggcccaggc tgaatcccag gtcctcctgg taggcgtcct cctcgatctc   660
tccgaagctc atacggttgg cctgctatcc ggatctccgt cagcccagc cgctccttca   720
tcttgcggta cctgcggccg cctcgcttct tccgctgtcc atccaggggc gcaggcagcg   780
gcttcacctg cttcacaggc ggcggctcct gccacttgtc gaatttgcgc tcgatctcat   840
ccttcagttc gtagcccacc ttcccttctg tgctctcgtg gaaactgtcc acacgggctg   900
ccagtgtgca cttggcggcc accagccggg ccgctttccg ccgcagatcc tggagcaacg   960
gaaaacgggg gtggaatcgg tggcagggac tgcacgatgt cactgtggta gatgtagccg   1020
gtgtgggca gcactgaggt agacgagaag cccgacagcg tcttgcgctg ggccccgagc   1080
.agcatgatgt tgcaggcggg catcttggag aggttggtca ggccgccggc cacacccatg   1140
atcttggcgg ccgtggatgc cccgataatg atggacaggt tgggtgcgat gaaggacatc   1200
cgggactcca catactcgta gatgcggtgc ttggaggcgt tcagctccag cgccatgtcg   1260
caggcctcct ccagccgctc cagctcctcc tccgacagct gctgcccctg ggtggtggag   1320
gcggtgacgc tgacgaccat gatggtggca ttggtgagga tctgctgcag gttctcattg   1380
ttcttgcact tgtccaggct gttgcccagc tccttgaccg tgcggatgta atccagtgca   1440
ttggggacca aggactccag ttcagggaat ctctttgagt acttatcccg gatgaactta   1500
tggatgatgt tcagctcgtt ttcgatctcc acggtcaggt tgttggcatc cacgatgacg   1560
cggtattcag gcgcggcctc cactggtccc atcacttctg aagctttggc ttgcttgctg   1620
atatactcct caatcttcat cataatctca gcaaacatct tactatccca tagcttggcg   1680
atggtcttga ctgaatcccc ggaaagatcc agctgtgtct cctcctgcac atcctcgatc   1740
gctggctcct cttcttcctc cccatagctt cctccttcct cctcttctgc tgcctcttcg   1800
agatcagcta agagctcatc tgccagagac atcccgaggc ctctcctctc cgcgcaccac   1860
tgtttctagc g   1871

<210> 6552
<211> 2348
<212> DNA
<213> Homo sapiens

5196

<220>
<221> misc_feature
<222> (179)...(1457)
<223> similar to gi4191784 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6552
```
tagcggtccc aggagtttcc aaggtaaccg cgcagtaggg cggatctcat taggcggaaa    60
gcgaaacccg gaagtgacgc tcttaccggg tgtcagcagc gagagggttc gaagatggcg   120
gcgcgcaagg gtcggcgtcg cacgtgtgaa accggggaac ccatggaagc cgagtccggc   180
gacacaagtt ccgagggccc ggcccaggtc tacctgcccg gccgggggcc gccgctacgc   240
gaaggggagg agctggtcat ggacgaggag gcctatgtgc tctaccaccg agcgcagact   300
ggcgcccccct gtctcagctt tgacatagtc cgggatcacc tgggagacaa ccggacagag   360
cttcctctta cactttactt gtgtgctggg acccaggctg agagcgccca gagcaacaga   420
ctgatgatgc ttcggatgca caatctgcat gggacaaagc ccccaccctc agagggcagt   480
gatgaagaag aagaggagga agatgaagag gatgaagaag agcggaaacc tcagctggag   540
ttggccatgg tgccccacta tggtggcatc aaccgagttc gggtgtcatg gctgggtgaa   600
gagcctgtgg ctggggtgtg gtcagagaag ggccaggtgg aggtgtttgc gctgcggcgg   660
cttctgcagg tggtggagga gccccaggcc ctggcagcct tcctccggga tgagcaggcc   720
caaatgaagc ccatcttctc cttcgctgga cacatgggcg agggctttgc ccttgactgg   780
tcccccccggg tgaccggtcg cctgctgacc ggtgactgtc aaaagaacat ccacctctgg   840
acacctacgg acggcggctc ctggcacgtg gaccagcggc cattcgtggg ccacacacgc   900
tctgtggagg acctgcagtg gtcaccgact gagaacacgg tgtttgcctc ctgctcagct   960
gacgcctcca tccgcatctg ggacatccgg gcagccccca gcaaggcctg catgctcacc  1020
acagccaccg cccatgatgg ggacgtcaat gtcatcagct ggagccgccg ggagcccttc  1080
ctgctcagtg gcggggatga tggggccctc aagatctggg accttcggca gttcaagtct  1140
ggttccccag tggccacctt caagcagcac gtggcccccg tgacctccgt cgagtggcac  1200
ccccaggaca gcggggtctt tgcagcctcg ggtgcagacc accagatcac acagtgggac  1260
cttggcaagt ggagcgggac cctgaggcgg gcgacgtgga ggccgacccc ggactggccg  1320
acctcccgca gcagctgctg ttcgtgcacc agggcgagac cgagctgaag gagctgcact  1380
ggcacccgca gtgcccaggg ctcctggtca gcacggcgct gtcaggcttc accatcttcc  1440
gcaccatcag cgtctgaggc gtcccactgg ctctgatctt gcttcctgct tggaaactga  1500
agtcgaattg ggctccctg gaaggggttc attcaggtct gttgactgag actggccggc  1560
ctgtgggctg ccgtgatgga ttctgtttga cgtattgttc tctagaaggc ctggctctga  1620
tccagtgacc cctctcacca aagaactcgg tttaaccagg gctctgtaag accactccca  1680
cccagagact tgtgtggcct ggtgtggcct gtgtgtcgga ttccttcctg tcagctgtga  1740
cccatttgac ctgtgtcccc agaacccagt tttttgtttg tttgtttgag acggagtctt  1800
ggtctgtcgc ccaggctgga gtgcagtagc acgatcttgg ctcactgcaa cctccgcctc  1860
ctgggttaaa gtgattctct cagctcagtc tcccaggtag ctgggattac aggcatgtgc  1920
caccacaccc cgttaatttt tgtattttta gtagagacgg ggtttcacca tgttggccag  1980
gctggtctca aattcttgat ctcaagtgat ctgtccgccc cggcctccca gagtgctggg  2040
ttgggattac aggcgtgagc caccgcgtcc ggctcaggac ccagttttgg ctgctggttc  2100
ccagcagggg actcggggga tatacagtgg ctgcaccaaa ttggaggtgt gggttcctcc  2160
aacacaattt gcttctgccc gttgtcttcc tgccagctgg gtttggccag gatttctccg  2220
tgtgggggct acatgcgacc ctctccctc ctccctgact ttagaggctg gtgctgtgtc  2280
gggaggaagg tcagggctcc tgagcagcaa taaaggacca ggaagaggcc tgaggtgtaa  2340
aaaaaaaa                                                           2348
```


<210> 6553

<211> 2537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)...(992)
<223> similar to gi517093 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6553
```
ggcgcagagc ggagatgcag cggcttgggg ccaccctgct gtgcctgctg ctggcggcgg   60
cggtccccac ggcccccgcg cccgctccga cggcgacctc ggctccagtc aagcccggcc  120
cggctctcag ctacccgcag gaggaggcca ccctcaatga gatgttccgc gaggttgagg  180
aactgatgga ggacacgcag cacaaattgc gcagcgcggt ggaagagatg gaggcagaag  240
aagctgctgc taaagcatca tcagaagtga acctggcaaa cttacctccc agctatcaca  300
atgagaccaa cacagacacg aaggttggaa ataataccat ccatgtgcac cgagaaattc  360
acaagataac caacaaccag actggacaaa tggtcttttc agagacagtt atcacatctg  420
tgggagacga agaaggcaga aggagccacg agtgcatcat cgacgaggac tgtgggccca  480
gcatgtactg ccagtttgcc agcttccagt acacctgcca gccatgccgg ggccagagga  540
tgctctgcac ccgggacagt gagtgctgtg gagaccagct gtgtgtctgg ggtcactgca  600
ccaaaatggc caccaggggc agcaatggga ccatctgtga caaccagagg gactgccagc  660
cggggctgtg ctgtgccttc cagagaggcc tgctgttccc tgtgtgcaca cccctgcccg  720
tggagggcga gctttgccat gaccccgcca gccggcttct ggacctcatc acctgggagc  780
tagagcctga tggagccttg gaccgatgcc cttgtgccag tggcctcctc tgccagcccc  840
acagccacag cctggtgtat gtgtgcaagc cgaccttcgt ggggagccgt gaccaaaatg  900
gggagatcct gctgcccaga gaggtccccg atgagtatga agttggcagc ttcatggagg  960
aggtgcgcca ggagctggag gacctggaga ggagcctgac tgaagagatg gcgctggggg 1020
agcctgcggc tgccgccgct gcactgctgg gaggggaaga gatttagatc tggaccaggc 1080
tgtgggtaga tgtgcaatag aaatagctaa tttatttccc caggtgtgtg ctttaggcgt 1140
gggctgacca ggcttcttcc tacatcttct tcccagtaag tttcccctct ggcttgacag 1200
catgaggtgt tgtgcatttg ttcagctccc ccaggctgtt ctccaggctt cacagtctgg 1260
tgcttgggag agtcaggcag ggttaaactg caggagcagt ttgccacccc tgtccagatt 1320
attggctgct ttgcctctac cagttggcag acagccgttt gttctacatg gctttgataa 1380
ttgtttgagg ggaggagatg gaaacaatgt ggagtctccc tctgattggt tttggggaaa 1440
tgtggagaag agtgccctgc tttgcaaaca tcaacctggc aaaaatgcaa caaatgaatt 1500
ttccacgcag ttctttccat gggcataggt aagctgtgcc ttcagctgtt gcagatgaaa 1560
tgttctgttc accctgcatt acatgtgttt attcatccag cagtgttgct cagctcctac 1620
ctctgtgcca gggcagcatt ttcatatcca agatcaattc cctctctcag cacagcctgg 1680
ggaggggtc attgttctcc tcgtccatca gggatctcag aggctcagag actgcaagct 1740
gcttgcccaa gtcacacagc tagtgaagac cagagcagtt tcatctggtt gtgactctaa 1800
gctcagtgct ctctccacta ccccacacca gccttggtgc caccaaaagt gctccccaaa 1860
aggaaggaga atgggatttt tcttttgagg catgcacatc tggaattaag gtcaaactaa 1920
ttctcacatc cctctaaaag taaactactg ttaggaacag cagtgttctc acagtgtggg 1980
gcagccgtcc ttctaatgaa gacaatgata ttgacactgt ccctctttgg cagttgcatt 2040
agtaactttg aaaggtatat gactgagcgt agcatacagg ttaacctgca gaaacagtac 2100
ttaggtaatt gtagggcgag gattataaat gaaatttgca aaatcactta gcagcaactg 2160
aagacaatta tcaaccacgt ggagaaaatc aaaccgagca gggctgtgtg aaacatggtt 2220
gtaatatgcg actgcgaaca ctgaactcta cgccactcca caaatgatgt tttcaggtgt 2280
catggactgt tgccaccatg tattcatcca gagttcttaa agtttaaagt tgcacatgat 2340
tgtataagca tgctttcttt gagtttttaaa ttatgtataa acataagttg catttagaaa 2400
tcaagcataa atcacttcaa ctgctcttct gtagttcttg gatttctttt ccctttttgac 2460
tttgaataaa tgtaaaatcc tttcagccag aaaaagtaaa atagaaacaa cctgtattaa 2520
aaatcttcca tagaagc .                                               2537
```

5198

<210> 6554
<211> 2491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2219)...(1357)
<223> similar to gi3860004 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6554
ttttttttt ttacaacaaa attagtcact tttatttaaa agaaacatta caaataagtg   60
tgcaaaatta aacatcatga ttaaatacac atgaaaggaa catgcatact ttacagcaac   120
atccacagag aattagctga ttacatgaca gtgacagtaa agaactaaag aaaccggcaa   180
aaccgagaac tcgctgctat gcaggtttta catgtttgca atctgaaatc aaaaccataa   240
aatagagttt aacgggaatt taagaaaatt aaatatatat cccaagtagc tgacaatgta   300
gagcccataa cctagttacc aaatgttaaa aaaagttatg tgcctctcct tcccaaaatg   360
ttagtgtgta gctattctta caaatgaggg gaggggagac ggtggacctg ggggctcgga   420
ggccagacca gggcatttcc ctccacacca gcgggaactg catggaccct cccagaccct   480
gctctggcag acgaccccga agttaaagga tgttttcccc ataacgaatg ttcaaagttc   540
gtgcatcact ctgctgttcc ctacacataa ccgggaaaca ggtttaatcc aaaatgtaac   600
caggagaccc cccgtccccg ccccgcacac gcctgaggtg tgacggctcg gcttctagag   660
tggcctggtg tctgcctcat tctaatggcc ccaacggaga cggggacgcc acgcacgggc   720
acaggtgacg tcacgggcac agatgaccac gttgcgggta cggagaagac cacaggctgg   780
gctcacacga ggggaaacat tcacactgtg ttctctctac agggtcaggt cgttttctt   840
catgttcggg cgggaaaagg aattcctttc tccttttcta aggcaagctg ctggtgttgt   900
attcaatctg cttatcatgt aagaacttac atctgcacac ttgttcactc ccccgctgca   960
gactcagtaa gaacgacgga atctgctgca aaaacaaacc tgaactcgtc caccctctca   1020
gcccagtccc caggtccgta tggagccccc gtcagtgtga ggatgcggcg gagccactga   1080
agctaacgtc acagctgaac tcatgggaac agccagtggc cgccagtcga gctggtcaca   1140
gccactgagt tacctacggt gccttgatga tgattctctc tttaatactg gaaatgggag   1200
tccttaggaa agcagacaac cacgtatggc ttcgagacca aggtccctgg gcagcccctc   1260
cagcccgtgg cccaggaggc ccctggggca ctggcaccag ccccgagagt ctgaaggcgg   1320
caggtggtgg gtgctgtggc gcccccagct ggagtcacag cttgtcatcg gtcatctcta   1380
gaaactgcgc gtagacatct cggatgcact cccccttggg gttgaacagg aatttgtagt   1440
agctgccgtc tgcacaaatt gcaatgacgg cgtttggctc tgttccaaag gcacaaatgc   1500
acggagagcc tgagggaacc tgaaacttgg agaaactcca cttggaactg aagtattttg   1560
gaaggaaact ggctgaggcc aaactggact gtttattcct ttttggatct tcagctgcaa   1620
aaatatgcac tgtgccgtgg tcgctggata cgcagatgag ggacgcatcc tgattgaagt   1680
tgatgcagta aatattggct gcttgagatc ctcttcgcag ttcctggatt aaatgccctg   1740
atgaagtatc aaatattctt ataagcgtcc ctttctcgga tgcagttgca attcttgttc   1800
cctgcaggtt gagtgcaatg cagctcagga caccctcgtg tgcaggaatg tccacgggtg   1860
gcttctccgt gctggccagg tccacaagct gcacatggcc cgtgtgcgtg cccggaaagg   1920
ccaggaggga gttgttacta ttgggacaaa ggacacagag gcctttgggg ttatagcagg   1980
ttttcgaaga cgtgcaactg atgggggatt gtgtgtgaat gtgaacacct taatcatgga   2040
gtccaaaacc accacaattt tatcctcgcc gcagcttgac tgccttgact tctgtagaaa   2100
attctatttc aataacagtc ttcttcttca ggtcatccca gatcattact ttgttgggag   2160
ggtatttcgg ctttttttcca ccaccaacta aagctaaata gttgcagcga aataacattt   2220

```
caacatggcc aactcctcct tctagaaatt cttgtttctc ttttttctttt agtggatcag    2280
tgttatagac tcggaatcca ttttccatcc cacacgcaaa gcatccgtgg tcctggttga    2340
agccggcgta gagcagcccg ttgccgtgag ggttacacgg caggaggttc atggcgccgc    2400
cgtgctgggt cgccgctcct cagcgctgca tgcctctcac tggggacggc ggcctggtcc    2460
cttcgggccg gcgctgaggc cgccgacgaa a                                   2491
```

<210> 6555
<211> 2178
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1986)...(345)
<223> similar to gi340448 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6555
```
tttttttact ctaccataaa ttactttcat tttaatgatc ctttacaaaa tggggccgca      60
tattgatttt ttttgacatt acacaggtgg gtaggttata ttacctgtga actcactgtg     120
gtgtaatgga aggaatgtca caaaatatgt cgctaaagag ggcactgagt ttgatagatt     180
tgggaccaac caacctcggg tgcttgggaa gcatcatttc cttagaaagt cagaagtcac     240
ccatgacatt tctacccccca gccctcctt ccatgagtac actatgtgga cttaccacat     300
tttttacttg tggttaaaag tcatcagcaa agtttctctc ctatgtggat tctctgatgt     360
caaataacat ggaagcaccc acagaaggct cttccacccc aataacgtgc acagggtttt     420
tctcttgcat gatttttttgg atgtcaaaca aagccagggc tctgctttcc ggctgccctg     480
cctttgctcc gcctgcagag ctctttctgg agttcgggtg ttgatgctga accaggtgtg     540
agttcctgct cgaggattgt tcacgccgcc ggcttcgccc atggggctgc tcctctctgg     600
tgtgagttat ctggtgccgg atgaggtgag agctctgaat gaaacacttc ccacactgat     660
tacatttgaa gggtctgtcg cttcggtgag tcctctcatc ttgactcaaa ggtgggtcac     720
aggcccaggg cttctgtcca ttcatgcttt gtgagagctg gcgtctgctc aaagatcagc     780
ctctggcggc actcaaaggg cttctcccccc gcgtgcttcc gctggtgctg ggccagggat     840
gagctgtgcc tgaagcccctt tccgcagtgg gtacacttcg atggcctctt cctcgtgtga     900
gttctcaggt gcaggaaaaa ggcaagtggt ccgagagaag ggattcccac acacacttgc     960
aggtgtatgg cttctttccc aagtggtgtc cctcttgtgc ccgccccaag ggaagagtat    1020
tggttgaagg cccttcccac agtccttgac actcataagg gcttttcccc gtgtgaatcc    1080
tccgatggac ggtaaggagt gtactatggc acaaagactt cccacattcg gcacacttgt    1140
agggcttgtc tccagtgtgg atgcgctcat gctggacgag ggaggagttc tggctgaagg    1200
ctttcccaca ctccttgcac atataaggtc tttctcccgt atgaatcctc ttgtgcacgg    1260
tgaggtgtgc gttatggtta aacgacttcc cacagtcagt acatttgtag ggtttgtcct    1320
gcacctggct ttttgtgagt tccgtaattg gaatggcctg actggaatct ctgtgacagt    1380
cactgttttc accgggctgt tttcctgggg agcctgtctg ctgactgact aagctggagt    1440
tatgttctga gtctgtaatc tgtgagtcgt aagtatacaa atactcccct ctagagatct    1500
ctgggaatgg atttgggctt gaactcagga cgcagttttc cctgagtctg agagttttgt    1560
aggcttgatc ttgaactggt gcttccttga ggccaaattc caactgcttc aagttattct    1620
gctccttgag tgccagactc tggctctgac actccctgtc tttccctaac gtggtgggat    1680
aaggagcatc tgtcgggaat ccttcccttc ccgtgacatg ggatggctcc tcttcaggca    1740
ggccctcttc cttcgtgat gcttggcttt cagatcgagg ctcccaggct ggatggcagc    1800
cctgggtggt tcctctctca gccacccata gctcggtccc ttgctccagc tgggagatga    1860
cttcaggctt cggaagctca ggacctatgg agagcaggtg accaaaggtc tccagcatca    1920
```

5200

```
cgtcacggta gaggatcctc tgggtagggt ccagctgccc ccattcctcc tgggtaaagt    1980
ccacagccac atcccggaag gtcactggtt cctgaagccg ggccgccggc ggccccacag    2040
acatcactcc cgctacccct tcgtcctcgg ggtccatgct ggatcgccca gtgaaggaca    2100
gcgcctgagg tgatccccag accagagagg cactccagcc aaagggacca cccgactcgc    2160
cgaactccgg acacgaaa                                                   2178
```

<210> 6556
<211> 2361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2362)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (695)...(1542)
<223> similar to gi5596705 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6556
```
tttcgtcctt gggttccgct gtaggggagg tcccgtgcga aagaatgagg agatcctggg      60
gccttaccta ctagcggaat cgactgaaga gacgcctgcc agtgcgggag gtaggaagct     120
cgatccccaa agaaaagagc gagtgggcag gcagctgcga gacagaaccg gagtgtgcag     180
ggtccctaga ggccggttcc tggtctgtgc tgctctcctg gaagccatgg tacaggcaga     240
gctcagggcg atccccaggt gagggcagcg gctctgcctg ggattccacc gcagtacaac     300
cgggtagatg cggggtggag aagaaaggat gttgcctgca ctgctcgcca atagcaccct     360
gagaggctac atttgcagaa gcagcagcag cagaagacac agcgccggtc caggaggcgg     420
ctcgagctgt tcgtaaagtc gcccgacagc tttttctccg tagtatgcga gttgacaaaa     480
cagccagaga acagggctcc ccattacaat cttttcgaga tcttttccct tgctaaccgg     540
atctgatttg tgcgaaaaca tgccttgcac ttgtacctgg aggaactgga gacagtggat     600
tcgaccttta gtagcggtca tctacctggt gtcaatagtg gttgcggttc ccctatgcgt     660
gtgggaatta cagaaactgg aggttggaat acacaccaag gcttggttta ttgctggaat     720
ctttttgctg ttgactattc ctatatcact gtgggtgata ttgcaacact tagtgcatta     780
tacacaacct gaactacaaa aaccaataat aaggattctt ggatggtac ctatttacag      840
tttagatagt tggatagctt tgaaatatcc cggaattgca atatatgtgg atacctgcag     900
agaatgctat gaagcttatg taatttacaa ctttatggga ttccttacca attatctaac     960
taaccggtat ccaaatctgg tattaatcct tgaagccaaa gatcaacaga aacatttccc    1020
tcctttatgt tgctgtccac catgggctat gggagaagta ttgctgttta ggtgcaaact    1080
aggtgtatta cagtacacag ttgtcagacc tttcaccacc atcgttgctt taatctgtga    1140
gctgcttggt atatatgacg aagggaactt tagcttttca aatgcttgga cttatttggt    1200
tataataaac aacatgtcac agttgtttgc catgtattgt ctcctgctct tttataaagt    1260
actaaaagaa gaactgagcc caatccaacc tgttggcaaa tttctttgtg taaagctggt    1320
ggtttttgtt tctttttggc aagcagtagt tattgctttg ttggtaaaag ttggcgttat    1380
ttctgaaaag catacgtggg aatggcaaac tgtagaagct gtggccaccg gactccagga    1440
ttttattatc tgtattgaga tgttcctcgc tgccattgct ccatcattac acattctcat    1500
ataaaccata tgtccaagaa gcagaagagg gctcatgctt tgattccttt cttgccatgt    1560
gggatgtctc agatattaga gatgatattt ctgaacaagt aaggcatgtt ggacggacag    1620
```

```
tcaggggaca tcccaggaaa aaattgtttc ccgaggatca agatcaaaat gaacatacaa    1680
gtttattatc atcatcatca caagatgcaa tttccattgc ttcttctatg ccaccttcac    1740
ccatgggtca ctaccaaggg tttggacaca ctgtgactcc ccagactaca cctaccacag    1800
ctaagatatc tgatgaaatc cttagtgata ctataggaga gaaaaaagaa ccttcagata    1860
aatccgtgga ttcctgaaca gtatggaaaa gcaaactgtg caactactac attatatcat    1920
tacctggtat cccatggatt ttgtgcttgg gacagaccat aaatgatgga aaatgtcaac    1980
acaaaaatag ctgaaagcca ggtacaacta ctgcatttat atatgtaagt tttgtatatc    2040
aaaaataatt ggtctaaatt tcctagactt agacttgatt tcttaacatt agggtatcgc    2100
atactcaaat ggtagacaat gaccccaact aaatcttcct gatgttacac tgctttatca    2160
agaggatgga cttttttttt ttgagacaga caaacttttg gctctgtcac ccgggctggg    2220
agtgcagtgg gcgcaatctc ggggtcactg caagctctgc ctcccaagtt catgccattc    2280
tcctgcctca gccttcccaa gtaggctggg ggactacagg gcaccctggc cacccatggc    2340
ccaggntaat tttttttttt t                                             2361
```

<210> 6557
<211> 1006
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(671)
<223> similar to gi5052364 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6557
```
ccgttcgacg atttcgtcga aggactatgg caggggagaa cttcgctacg ccgttccacg     60
ggcacgtggg ccgcggcgcc ttcagcgacg tgtacgagcc cgcggaggac acgtttctgc    120
ttttggacgc gctcgaggca gcggctgccg aactggcagg agtggaaata tgcctggaag    180
tagggtcagg gtctggtgta gtatctgcat tcctagcctc tatgataggc cctcaggctt    240
tgtacatgtg cactgatatc aaccctgagg cagcagcttg taccctagag acagcacgct    300
gtaacaaagt tcacattcaa ccagttatta cagatttggt caaaggcttg ctaccaagat    360
tgaccgaaaa agttgatctt ctggtgttta atcccccta tgtagtgact ccacctcaag    420
aggtaggaag tcacggaata gaggcagctt gggctggtgg cagaaatggt cgggaagtca    480
tggacaggtt ttttccct ggttccagat ctcctttcac caagaggatt attctattta    540
gttaccatta aagaaaacaa cccagaagaa attttgaaaa taatgaagac aaaaggtctg    600
caaggaacca ctgcactttc cagacaagca ggccaagaaa ctctttcagt cctcaagttc    660
accaagtctt agcatacagt gtgtgcccag aactactgga aactgaatgc atttagcata    720
ttttgaaact gaagtcattc attagatgga tttacatcac tggcttccct ggttctcaag    780
cctttggatt cagactgaat tataccacag gccttcctgg gtctgcagct tatagatggc    840
agatcatggg acctcttagc ctccataatc atgtaagcca ctttcttgta gtactggtaa    900
aagatatatt agaccaatct ataaaacagc tagctatgaa agagaaaggt gacaggcaca    960
agcctatgca aatagagaag ggttcctgga gagcctctga cttgcc               1006
```


<210> 6558
<211> 2628
```

5202

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2538)...(1016)
<223> similar to gi32356 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6558
```
tttttttttt ttcagtggga gaaagaatgt ttaataaatg gtattgagac aaatagctat    60
ctgtttggaa taaaaataaa attagatcct taaatcttgt accatataaa aaaatacata·   120
ttactgatgg atccaagagt taaaaaataa aaatgtaaat atccaaaatt ttacatacaa   180
ttttaggggg tacacagatt ctttgaagcc cacccatgga tcccagatta ttatctataa   240
gaggaactgt taattataac ctctattaaa atctcaatgc caaatactag ctgtatttaa   300
gtcacatgca acaaatgaaa atgaacacat taactcattg ttataacttt ataaaatctc   360
caaactggac tagaaacaga ggcatgtcaa tacaaatggc cacgtgactt aaaaaaaaat   420
acaccaattt aaataagttt gaatgcatac tgtacacgtg tatccatgtc tgttagcctt   480
tcagaaatat aaaatcagtt aaatctgtag tacttaaaat tcaacatatg taacgttatt   540
ctcaaacttc attaaaataa taaatataca agttatgttt aatatgagta actgcaacat   600
acttaaacat ctaaacatat aatagggaat tctatattaa aatgcaatac tttcacctgc   660
attaatctct tacacaatga aaaaatactt gcagataatt agcattaaga atgcaaatat   720
atttttactg tggaagaaaa attccagtaa taaggttaga aatcatatat ctgtataatc   780
tacaatgaag ctgtagatag tctacattat gatattctat cttaaaatga aaacaattca   840
atatttaagc ttacaacaaa tttactcaag gcaaaatatg tttattacag aacaggatct   900
taaagtaagc aaggcaacat gagatcaacc attttagatt tttttttaat gaagtgtagc   960
tttgaaattg taataaaggt gaacataaat tctaacatgc tcttctcttc ttataaatgg  1020
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agaacttcat ggtcattaca caactttgtg aaggtctctt ctgtgacaca caatggaaca  1260
ttataataat gcaaaacaca ggagggtggc tggattatat tcttagatgc ttggccagca  1320
cttgtaaagc gattattttt gctcattgca aaatctttgt agctgctggt accatcctcc  1380
agctcaaata tttgacttgg aacaactgaa tgttgtttag acacgcaaac attaagtctt  1440
ttcccaaata atttgacatt attaaggtgt gtgacagctc tttctacagc atactcatca  1500
cccatttcta ccagtgctgt accaggaatg gtcttcataa attttacctt ctcaatattt  1560
ccatataagc agaacaggtt gaagactctt gaacaattca tttttagttg atgtaatcca  1620
ctaaccatta caactgaacc agagggattt cctccatgca tgtaagagga agaagcctgt  1680
ggtaatggat aagcaacaag ttcaggtgta tctcgagagc ccattctgta acgacttggt  1740
aaaggcaata atggaccatg ggatccatag ccatcatgtc taaacgaaga agggtgttct  1800
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gtgtagtccc aactgtcatt gtcattccta ataacattta gacgagttgg ccgtgcatat  1920
tcaattttta gtgtgcaaca tccagcatat atatcagctc cattgagtgc tgctttagct  1980
ttctgggcac aaaggactga ttcaaactca accattgctt gtatcccatt tctcttgaat  2040
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attggataaa gcggattctg aattgagagc agaagaactt tgttgcctcc tgatggatca  2160
tcagtatttc ctggccgagt gatccttttg cttgtagaat agttgaaaaa agcctgttga  2220
ccagcaatgt acacgggttc atctgcagca aatgtcacac attctttggc actatctatg  2280
ttttcaaatt ccactagagc ctgtcgttta aatggcatca tcatcacata gcatattgtc  2340
ccaaattttt ccagcgcttc cacgaggtct gcttccacca cagattcaca gagtcctcga  2400
acatggacga cgggtgaaac agaaacttta tgatgacttc cacctgcctc cggctgagag  2460
aagctccggc cgccgccgcc gccatcgccc ccgccccggg gcgtcgcttc ccggcggttc  2520
tcgccttcct cggccgagta gtcgatctcc ccctcctcgg tcttgagacg cttggcctgg  2580
ctctcgtact cccggtcctc ctcgtacgtc tcccgagcca acattcag            2628
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<210> 6559
<211> 1631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (40)...(1053)
<223> similar to gi5306062 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6559
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agcaattttg tgatcatccg ctggagcact gtgaggacac gaggctccat gatgcagctt   180
acgtcgggga cctccagacc ctcaggagcc tattgcaaga ggagagctac cggagccgca   240
tcaacgagaa gtctgtctgg tgctgtggct ggctcccctg cacaccgttg cgaatcgcgg   300
ccactgcagg ccatgggagc tgtgtggact tcctcatccg gaaggggggcc gaggtggatc   360
tggtggacgt aaaaggacag acggccctgt atgtggctgt ggtgaacggg cacctagaga   420
gtacccagat ccttctcgaa gctggcgcgg accccaacgg aagccggcac catcgcagca   480
cccctgtcta ccacgcctct cgcgtgggcc gggcagacat cctgaaggcc ctcatcaggt   540
acggggctga tgttgacgtc aaccaccacc tgactcctga tgtccagcct cgattctccc   600
ggcggctcac ctccttggtg gtctgcccct tgtacatcag cgcagcctac cacaacctcc   660
agtgcttccg gctgctcctc ctggctggcg cgaaccctga cttcaactgc aatggtcctg   720
tcaacacaca gggattctac aggggctccc ctgggtgcgt catggatgct gttctgcgcc   780
acggctgtga ggcagccttc gtgagcctgc tggtagaatt tggagccaac ctgaatctag   840
tgaagtggga atcgctgggc ccagagtcga gaggaagaag aaaagtggac cctgaggcct   900
tgcaggtctt ttaaagaggc cagaagtgtt cccagaacct tgctgtgtct gtgccgtgtg   960
gctgtgagaa gagctcttgg caaacaccgg cttcatctga ttccttcgct gcctctgcca   1020
gacccccataa agaagtttct actccatgag tagactccaa gtgctgcggt tgattccagt   1080
gagggagaaa gtgatctgca gggaggtgga caccgagccc tgagtgctgt gctgctgctg   1140
gtctcctgat ggctgttgct gcagaagatg tcctcgtaga ctgtcattgc tcctcacaca   1200
catgaagacg tgcccgcttc ccctttgctt tctgccatga ttgtaagttt cctgaggcgt   1260
ccccagccct gcagaactca gcccgggggc acaggcacgc agaagagact ttcccacagc   1320
ggttcccaga gccctggatg aggcgtcctc caaaggatta tgtcaccaag tttctgcagg   1380
tgggcacggc ctgacgactg gattgtccaa caaaacacag aaagtgtaga caagagaaca   1440
gcagaaagtg acgcctgcag ccacagagat gtgctcccag tctccctctt ttctgactgc   1500
tgggggtgca caccacagcg aggcccaagg gctgtgatgg aggcctagga tggaaggtgg   1560
ctggtccctg aattacttct aggagaggca ccatctgctg agcaggaacc cctgcctggg   1620
acagttgcaa g   1631

        <210> 6560
        <211> 1684
        <212> DNA
        <213> Homo sapiens

                        5204

<220>
<221> misc_feature
<222> (1565)...(752)
<223> similar to gi3875449 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6560
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tatacaatta aatcaagaac attaggaaaa ttttttgca aaaatgtcaa aaaaagattt   180
gatctggtcg ggtatagtgg ctcacacctg taatcccagc actttgggag gccaaggcgg   240
gtggatcacc tgaggtcagg agttcaagac tagtctagcc aacttggtga aaccccatct   300
ctaccaaaaa tacaaaaatt agccaggtat ggtggtgtgt gcctgtaatc ccagctacta   360
gggaggctga gccacgagaa tcgcttgaac ctgtgaggtg gaggttgcag tgagccgaga   420
tcgcaccact gcagtccagc ctgggggaac agagtaagac tccatctcaa gagaaaaaaa   480
aaaagatttg atcaaaccaa gatttcagaa aaacaaaacc aaaaacactg tgacttggtt   540
aacatttatt taattttggg aacacagtaa aaaacagaaa caaaacatct atttcttcac   600
aattgtgaaa atgtctggct tgaaacacct ttgacattta tctcactttc gctctcaagt   660
ttcaggctgc tgcatccatg gcggctagct ggcagtgatg ctcttttctg ctctcaaggt   720
ttctttgggc ttggaatagt tccacggccg tctattttct gtgaatccat aaagttttct   780
aagggccact cgagcagcct cttcttctgc aaccaatact gtttccccag gtccttctgc   840
aatcaacttt ttatcacagt ataagccaac aaaatacaaa ggcaaagctg tggggccac   900
cagactgcct agtaagtctt gattcaggag ctgaaacatt cctttcttc agttcttcta   960
ccaatagccc catgggattt attatcttcc acatctcaaa gagctctttt ccagtcattt 1020
gagtaattaa gaagtccctg atgaaaagtg cagtcctctc aggtccactg ctctgtaaca 1080
gggctccaat aactgcaaag aaagtctgct gtaacacagc tgggggcact gggaattctt 1140
cactcagtgt taactgctcc acagccaagt ttctagccac gtgacacacg acttcctcac 1200
cagtgagaaa gtcaacaaga tttttatgc cttcagtggg catgtctggg tactcgtctt 1260
caagaaactg tgtaaggcaa gtctgtgaaa aagatgtccc ttgttcggat agttcttgat 1320
tactttaag attcagaaga acagcttctt tctctatccc aagttgttgg cgtttggcct 1380
cctcacttt aatatagcag ctattaacaa atgcagtttt gagaagatct aaggaaaagt 1440
tttcctgtaa ccgatgtcca aaagcttgta tttctgcatg gtaatcccag ttcggcttct 1500
ctgaacggcg cacgggcggc ggcgggcacc gcagaaggcg ctgccgctct aactccttct 1560
ggaagcggaa ggcggcgcgg aatcccttct tcactccccg aaccggaggg accagcttgg 1620
gggcgactgg agccaggagg cagcgatgtc cctgctgcag caatcttacc agcccggacg 1680
cccc   1684

<210> 6561
<211> 2012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2013)
<223> n = a,t,c or g

<220>
<221> misc_feature

<400> 6561

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tcggctccag tcgctccgga ggaaggaaga agaggacgcc gggcgcgcag ctcggtgctg   120
attatcacaa ctgtttggtg acctacttca ctgacctgtg aggattcctt cccttcaagt   180
actggattct tgatctttct gcatcatcaa gaatggaaac agactgtaat cccatggagc   240
taagcagtat gtcaggattt gaagaaggtt cagagctgaa cggttttgaa ggaactgaca   300
tgaaagacat gaggctcgaa gctgaagcag ttgtaaatga tgttctcttt gctgttaaca   360
acatgtttgt ctcgaaaagc ctgcggtgtg cggatgatgt ggcctatatc aatgtggaaa   420
caaaggaaag aaacagatat tgcctagaac tcactgaagc agggctcaag gtggtaggct   480
atgcttttga ccaggtagat gatcatttac agactcccta ccatgaaaca gtctactcct   540
tgttggatac actcaggccc cgcctaccga gaagcatttg gcaaacgcac tgcttcaaag   600
actggaagct ttgaaaagag atggacagtc atgactacac tttttccttt cagaggggct   660
ggtgctggta cagaatgttg atataaagct taaaattctt gcatatggtc atagaaaatg   720
catctttggt tttgtgtttt tatcacttgc ttccaactta ggcttttggc tcagaagatt   780
attgaataat gatttgtctt agtttctgtt tcagtaaggg aattctgagg ccgttgctat   840
gataccatca ttaagacatt cacatgtctt catataatat ctcttcattt caaatcctaa   900
tcactatttc atactattac agggctttga tgctgccagc actgtctttt acataggaaa   960
ttctagattt gcacagtaat agaggaatta gaagtaccta actatacact ttgattcagc  1020
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gccttattgg aaacaaatta tcaactagtt tcccctgcac aaattttgaa attcactgct  1140
tcacttaatc tatttatatt actaataatg gattaataaa gatgaattaa ttatatatta  1200
cttaactagt attaaatgaa aaacagggac tgaaatagtt ctgtattccg tgtttgcaac  1260
agccagccaa ctaagcagag gataaaccgt tagcaaatga atgtaataat tactcatttc  1320
caagatatct aagcacataa gcaaatacag gaacagactt cattcttttt cttaacaaaa  1380
aagcatcttc agtgtgtgat ttaaaagaaa gaagattctg gtttcctaga aaacaatatt  1440
ttggcctgtg ttgattctta ttctgaatgt gtgtttacat aatgtacagt atatattcag  1500
aaagtatttt tgcttcaacg tttactttct atgatgtagt gctttggtat tcctacagca  1560
ccccaccttc cccaacagat gtacagtgtt ctgtctccat tcgaaatcta caatgtaata  1620
tgagtgcatt gtatgggttt gaaaccaaag gatgaatgaa gcattcagag acttaatatt  1680
tgaaaaagga atacgtcacg tattttatat tttattacag gtactgatat ttataaattt  1740
aataaactgt accatgctgc tgcatgtttt caagtacatg ttgaacagta aggattgggg  1800
agttgttttt taatggtcac ctaaagcagc tgctatagaa atgttgaact aaaatttgc   1860
atctggtcat accctcatgg catttaatca tttncagata attttccatc attaataaaa  1920
aacaggaact tttaggcncc gaagatcagg ngaccagngc caaataaagg tcngttgtgt  1980
cncaatccat gccaggactc cgtggaangc tt                                 2012
```

<210> 6562
<211> 1847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (466)...(1745)

<400> 6562

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cctgctcatt tgaaaatctg acatcagctg ggcagtcgcc cccctcctcc tttcctccct     180
ctactctgac acagcactta gcacctgaat cttcgtttct ctcccaggga ccctccattt     240
tccatatcca ggaaaatgtg atgcgccaca ggtatcagcg tctggatcgc cacttcacgt     300
tttagccaca agtgactcag tggaagatcc agagtcaaca gaggctcgtc aggaagatgt     360
ctacagaaaa ggtagaccaa aaggaggaag ctggggaaaa agaggtgtgc ggagaccaga     420
tcaaaggacc ggacaaagag gaggaaccac cagctgctgc atcccatggc caggggtggc     480
gtccaggtgg cagagcagct aggaacgcaa ggcctgaacc tggggccaga caccctgctc     540
tcccggccat ggtcaacgac cctccagtac ctgccttact gtgggcccag gaggtgggcc     600
aagtcttggc aggccgtgcc cgcaggctgc tgctgcagtt tggggtgctc ttctgcacca     660
tcctcctttt gctctgggtg tctgtcttcc tctatggctc cttctactat tcctatatgc     720
cgacagtcag ccacctcagc cctgtgcatt tctactacag gaccgactgt gattcctcca     780
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gaatcatctc cacttcttcg cgttcggtga tgctgcatta ccgctcagac ctgctccaga    1020
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tgctggaggt ggaactctac gcagactata gagagaactc gtacgtgccg accactggag    1140
cgatcattga gatccacagc aagcgcatcc agctgtatgg agcctacctc cgcatccacg    1200
cgcacttcac tgggctcaga tacctgctat acaacttccc gatgacctgc gccttcatag    1260
gtgttgccag caacttcacc ttcctcagcg tcatcgtgct cttcagctac atgcagtggg    1320
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acaattcccg gaaggaagtc caacgaagga tctctgctca tcagccaggg cctgaaggcc    1440
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cagggacaga gggtcagctg tccgaggagg agaaaccaga tcagcagccc ctgagcggag    1560
aagaggagct agagcctgag gccagtgatg gttcaggctc ctgggaagat gcagctttgc    1620
tgacggaggc caacctgcct gctcctgctc ctgcttctgc ttctgcccct gtcctagaga    1680
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tcgttttttcc ttcaataaac tattttgtgt cagcttcaaa aaaaaaa                  1847
```

<210> 6563
<211> 6309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(6310)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (117)...(3055)
<223> similar to gi3043658 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5207

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        <400> 6563
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ctgctgaggg ccacttcctg ggtcattcct ggaccgggag ccgggctggg gctcacacgg   120
gggctcccgc gtggccgtct cggcgcctgc gtgacctccc cgccggcggg atgtggcgac   180
tacgtcgggc cgctgtggcc tgtgaggtct gccagtcttt agtgaaacac agctctggaa   240
taaaaggaag tttaccacta caaaaactac atctggtttc acgaagcatt tatcattcac   300
atcatcctac cttaaagctt caacgacccc aattaaggac atcctttcag cagttctctt   360
ctctgacaaa ccttccttta cgtaaactga aattctctcc aattaaatat ggctaccagc   420
ctcgcaggaa tttttggcca gcaagattag ctacgagact cttaaaactt cgctatctca   480
tactaggatc ggctgttggg ggtggctaca cagccaaaaa gacttttgat cagtggaaag   540
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atgagtatat cgattttgag aaaattagaa aagcccttcc tagttcagaa gaccttgtaa   660
agttagcacc agactttgac aagattgttg aaagccttag cttattgaag gactttttta   720
cctcaggttc tccggaagaa acggcgttta gagcaacaga tcgtggatct gaaagtgaca   780
agcattttag aaaggtgtca gacaaagaga aaattgacca acttcaggaa gaacttctgc   840
acactcagtt gaagtatcag agaatcttgg aacgattaga aaaggagaac aaagaattga   900
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atacgcaaga tcatctgcca cgggttgttg tggttggaga tcagagtgct ggaaagacta  1080
gtgtgttgga aatgattgcc caagctcgaa tattcccaag aggatctggg gagatgatga  1140
cacgttctcc agttaaggtg actctgagtg aaggtcctca ccatgtggcc ctatttaaag  1200
atagttctcg ggagtttgat cttaccaaag aagaagatct tgcagcatta agacatgaaa  1260
tagaacttcg aatgaggaaa aatgtgaaag aaggctgtac cgttagccct gagaccatat  1320
ccttaaatgt aaaaggccct ggactacaga ggatggtgct tgttgactta ccaggtgtga  1380
ttaatactgt gacatcaggc atggctcctg acacaaagga aactattttc agtatcagca  1440
aagcttacat gcaggatcct aatgccatca tactgtgtat tcaagatgga tctgtggatg  1500
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tattcgtttt gaccaaagta gacctggcag agaaaaatgt agccagtcca agcaggattc  1620
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caggaaaagg gaacagctct gaaagcattg aagctataag agaatatgaa gaagagtttt  1740
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aggctgatag tttcaaagca acacgtttta accttgaaac tgaatggaag aataactatc  1920
ctcgcctgcg ggaacttgac cggaatgaac tatttgaaaa agctaaaaat gaaatccttg  1980
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ctttgtggga aagagtatca actcatgtga ttgaaaacat ctaccttcca gctgcgcaga  2100
ccatgaattc aggaactttt aacaccacag tggatatcaa gcttaaacag tggactgata  2160
aacaacttcc taataaagca gtagaggttg cttgggagac cctacaagaa gaattttccc  2220
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caagaacagt gtgttcacaa tgaaaccaag aatgaattgg agaagatgtt gaaatgtaat  2580
gaggagcacc cagcttatct tgcaagtgat gaaataacca cagtccggaa gaaccttgaa  2640
tcccgaggag tagaagtaga tccaagcttg attaaggata cttggcatca agtttataga  2700
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taccaaaggc attttgtaga ttctgagttg gaatgcaatg atgtggtctt gttttggcgt  2820
atacagcgca tgcttgctat caccgcaaat actttaaggc aacaacttac aaatactgaa  2880
gttaggcgat tagagaaaaa tgttaaagag gtattggaag attttgctga agatggtgag  2940
aagaagatta aattgcttac tggtaaacgc gttcaactgg cggaagacct caagaaagtt  3000
agagaaattc aagaaaaact tgatgctttc attgaagctc ttcatcagga gaaataaatt  3060
aaaatcgtac tcataatcag ctctgcatac atctgaagaa caaaaacatc aacgtctttt  3120
gtccagcctc ttttttcttct gctgttccac ctttctaaac atacaataaa gtcatgggat  3180
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5208

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gattaggaga tgaccttact gggtacaccc ctctaaccag tgcttacagg ttaatgcatg   4620
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tgcatttcac agttgtactc catggtcaac cggtgctttt tttcacatcg tggtacttgt   6240
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<210> 6564
<211> 1761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (203)...(1546)
<223> similar to gi2088804 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6564
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tgtcgaaatc cgctctgtga gccgggatcc tcggggggct ctagtggaag ccacacttcc   180
agtgcatcgg tgaccagtgt tcgttcccgc accaggagca gttctggaac aggcctctcc   240
agccctcctc tggccaccca aactgttgtg cctctacagc actgcaagat ccccgagctg   300
ccagtccagg ccagcattct gtttgagttg cagctcttct tctgccagct catagcactc   360
ttcgtccact acatcaacat ctacaagaca gtgtggtggt atccaccttc ccacccaccc   420
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gttctgggcc gccgcttcat tgggtccatc gtgaaggagg cctctcagag ggggaaggtc   540
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tggagtctgt gccgatccct catccacctc ttcaggacct actccttcct gaacctcctg   660
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aagacaagcc tcttcaacca catggcctcc atggggcccc gggaggcggt cagtggcctg   780
gcaaagagcc gggactacct cctgacactg cgggagacgt ggaagcagca cacaagacag   840
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agtgaggtgg agttcctcaa gatggacttc aactggcgca tgaaggaagt gctcgtcagc   960
tccatgctga gcgcctacta tgtggccttt gtgcctgtct ggttcgtgaa gaacacacat   1020
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atcctcatgc agcacctgct gcctgccagc tactgtgacc tgctgcacaa ggccgccgcc   1140
catctgggct gttggcagaa ggtggaccca gcgctgtgct ccaacgtgct gcagcacccg   1200
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aaagccgtag gccactacaa cgtggctatc ccctctgacg tctcccactt ccgcttccat   1320
ttcttttttca gcaaacccct gcggatcctc aacatcctcc tgctgctgga gggcgctgtc   1380
attgtctatc agctgtactc cctaatgtcc tctgaaaagt ggcaccagac catctcgctg   1440
gccctcatcc tcttcagcaa ctactatgcc ttcttcaagc tgctccggga ccgcttggta   1500
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gggctgttgg gtagaagtgg tggtggggggg gacaaaagac aaaaaaatcc accagagctt   1680
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tttatactcc caaaaaaaaa a   1761

<210> 6565
<211> 950
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (913)...(745)
<223> similar to gi4467884 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

          <400> 6565
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tgtcgcagga agtgacgttt cgggtacagc cgctaccaga gtcccttct cgcgaggcgg   120
aagaacccg atcgctgagg agcaaggggg cgctaggaat gggaactggg ttgcgacggt   180
ccggcgagag agagctgggg tgctgggtg cggggaagtt ggggagcaga ggccgcttgg   240
tgtccgagta gggtaagacc gcaccgaccc agtccgttag gaaagaaggg aaacgaggca   300
attgtcgggc ggatccccgg acggagggct aaggttgtgt ggaaggcgct gctccccgga   360
tggcgaccgc agatactccg gccccggcct ccagtggcct ctcgccgaag gaagaagggg   420
agcttgaaga tggggaaatc agtgacgacg ataataacag ccagatacgg agtcggagca   480
gcagcagcag cagcggcggc gggctgttac cctatccgcg gcgaaggcct cctcactcgg   540
cccgggcgg tggatctggc ggaggcggtg gctcttcctc gtcatcgtcc tcttctcagc   600
agcagctgag gaatttctca cgctcgcggc acgcgtctga gcggggccac ctcaggggac   660
ccagcagcta ccgacccaaa gaaccgttcc ggtctcatcc gccttctgta cggatgcctt   720
cgagctcact gtccgaaagc agtccccggc cgtctttctg ggagcggagc cacctcgcct   780
tggaccgttt ccgctttcga ggcaggcctt accggggtgg gagtcgctgg agtcggggc   840
gaggagtggg tgagcgagga ggcaagccgg ggtgcagacc tcctctggga ggaggagcag   900
gatccgggtt cagcagcagt cagagctggc gagagccctc tccacctcgg   950

          <210> 6566
          <211> 1618
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (62)...(1338)
          <223> similar to gi5689427 in the genepept database release 114,
               Run with FASTXY 3.3t00, default parameters

          <400> 6566
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ctgggccagc cgaggattat gtgaaggttc gttgggaccc tccggaggcc agtggggtac   120
tgcaaagagc catggggggtg ttgatgtcca agcggcagac agtggagcag gtgcagaagg   180
tgagtctggc tgtgtctgct ttcaaggatg ggctgcggga caggccttcc atccgacgca   240
caggtgagct gccagggtcc cgccgtggca ctgtagaggg ctccgtccag gaggtacagg   300
aggagaagga agcagaagca ggaacctcgg tggtccagga agagagtagt gccggccgcg   360
cagcctggga gcggctccga gatgggcgcg cgtggagcc tgaggagttt gacaggacaa   420
gtcgattcac accccctgcg ttcatccgcc ccacccggaa gcttggatga tgacaaacct   480
ccagaaatct tgcctgggag cccagagagc ctgtttttca acgattgaga tgtgtgatgt   540
ttgtgaggtc tggacagctg agagcctctt cccgtgcagg gtctgcacca gggttttcca   600
tgatggctgc ctgcgccgca tgggctacat ccaaggagac agtgcagcgg aggtgacgga   660
gatggcccac acagaaacag ctggagctg ccactactgt gacaacatca acttgctgct   720

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gcttctgcag cagttgcgtc cccagaactc tctgttgagg cttctgacag tgaaggagcg   1020
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gtgccgccgg gcccagcact cttggttttg caaacggttc ccagaggctc cttcctgcag   1140
tgtcagcatc agccatgtgg gtcccatcgc agatagcagc ccagccagca gcagcagcaa   1200
gagtcaggac aagaccctgc tgcccacaga gcaggagtcc agatttgtgg actggcctac   1260
cttcctgcaa gagaatgtcc tctacatcct ggctgctcgc cccaacagcg cagccattca   1320
cctgaagccc ccaggatagc atggagcaga gaagctcggt ttgaggacag tgacatcctc   1380
tccctccttt cctttctccc ttcccccacc aacctctggc acagagactc atggggttgg   1440
gacactgcca gcgtcttaac ttgtcactaa gctttaaggc actgaaatca ccattcccct   1500
cacaatagag gcagtgaatg cattgccaca aggagaagcc ctgggagctg tggcagcatc   1560
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     <210> 6567
     <211> 3277
     <212> DNA
     <213> Homo sapiens

     <220>
     <221> misc_feature
     <222> (3250)...(412)
     <223> similar to gi1469882 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




        <400> 6567
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     gccacctgtt gccaatggag atcggggaca ggcctggagg ccagccctgc ctggcaccct   180
     ggaaggtggt ggggtgggga caggggcctg gcttggggga ggaagaccag gccctgcgca   240
     cacgctggtc atggaaggtt gagggccagg caggcagagc agtgtccctg tggcccccag   300
     gtgaggcttg gtggcgggcg gccctcctgt agggtagagt ggtggacaga gcctctttcc   360
     tctccaagga tgagggtctg aggtaggtgc aggccggtcc ctggggtcct cacagacgtg   420
     gtttgatgtg cagaggcttc cctgagtcct tggtgagggg ggccctaggg gcccggaccc   480
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     tcttctcctt ggacacatgg tgggagaagg ggcaggtccc atccgttttc ttgcaggtgc  1140
     cccggacaaa cctggtgcac acggccacct tctcgggatc gtggatgtag gggcagcgct  1200
     cgccacggtt gcacctgccg aagcggttgt agtacatgca gtactccttc ctcttctccc  1260
     tgcgctgccg cgcctgccgg atgatggcca ggctgcgctg cactgcccgg ctggccaggg  1320
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5212

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ccgtggaggg ttttgtagtc atcaatcaga ccctgcagta ggcggatctg ccgccgtaat    3240
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cacggaaggc taagcaaggc tgacctgctg cagctccgc ctcgtgcgct cgccccaccc     120
ggccgccgcc cgagcgctcg agaaagtcct ctcgggagaa gcagcgcctg ttcccggggc     180
agatccaggt tcaggtcctg gctataagtc accatggcac agcaagctgc cgataagtat    240
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ctctatgtgg ataaaaactt catcaacaat ccgctggccc aggccgactg ggctgccaag      300
aagctggtat gggtgccttc cgacaagagt ggctttgagc cagccagcct caaggaggag      360
gtgggcgaag aggccatcgt ggagctggtg gagaatggga agaaggtgaa ggtgaacaag      420
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gatcccctga atgacaacat cgccacactg ctccaccagt cctctgacaa gtttgtctcg     2040
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ctggaatctc agatctctga actccaggaa gacctgaagt gcgagcgggg cttccaggaa     3600
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                                    5214

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tcaagctgga aaggccagca gccttccagt ggcttctccc aacactcttg gggaccaaat   6900
atatttaatg gttaagggac ttgtcccaag tctgacagcc agagcgttag aggggccagc   6960
ggccctccca ggcgatcttg tgtctactct aggactgggc ccgagggtgg tttacctgca   7020
ccgttgactc agtatagttt aaaaatctgc cacctgcaca ggtatttttg aaagcaaaat   7080
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5215

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aaggttttct ttttteeeet tteettgtaat aaatgataaa attecgagte tttetcactg    7140
cetttgttta gaagagagta getegteete actggtetac actggttgee gaatttactt    7200
gtatteetaa etgtttttgta tatgetgeat tgagacttac ggeaagaagg eatttttttt    7260
ttttaaagga aacaaactet eaaatcatga agtgatataa aagetgeata tgeetacaaa    7320
getetgaatt eaggteeeag ttgetgteae aaaggagtga gtgaaacet caceectacec    7380
cettttttat ataataaaag tgeettagea tgtgttgeag etgteaceac tacagtaage    7440
tggtttacag atgttttcea etgageatea eaataaagag aaccatgtge taaccagett    7500
actgtagtgg tgacagetge aacacatget aaggeacttt tattatataa aaaaggggt     7560
agggtgggag tttcactcac tectttgtga cageaactgg gaeetgaatt eagagetttg    7620
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aaaatgcett ettgeegtaa gtetcaatge ageatataca aaacagttag gaatacaagt    7740
aaattecgea aceagtgtag aceagtgagg aegagetact etettetaaa eaaaggeagt    7800
gagaaagact eggaatttta teatttatta eaagaaaggg gaaaaaagaa aaccttattt    7860
tgetttcaaa aatacetgtg eaggtggeag attttttaaac tatactgagt eaaeggtgea    7920
ggtaaaccac cetegggeee agteetagag tagacaeaag ategeetggg agggeegetg    7980
geeeetctaa egetetgget gteagacttg ggaeaagtee ettaaceatt aaatatattt    8040
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gaeagecttg etgtggeaga ggeaggetgt eetegggtaaa ggagggagg gggeattgea    8160
cttgagacat tttagaatca ggagggagac ageggaeagt ggegetgeet gggacagggt    8220
ggggaggaat eeaetettee eeceaceeea geettetgtg eeetgeaceag aggtggaggc    8280
ecagggeetg eteettetgg acegeecaga geeatgggag tgggaggeee aaggggeaga    8340
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etggtggeag aegteaggga ggetgaeg                                       8428
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<210> 6569
<211> 3156
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (233)...(2990)
<223> similar to gi4884417 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6569
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gcctgcgccg gacgggtggg ctggactgag agaattctct gagctggtga caggtgccac    180
aggcactggg gatctcacca gaaaggaacc gacggagcta ggggccagcg agatggcgga    240
cgaggcctta gctgggctgg atgagggagc ccttcggaag ctgctggagg tcacagcaga    300
tctggcagag cggcggcgca tccgctcagc catccgggaa ctgcagcggc aggagctgga    360
gcgcgaggag gaggccctgg catccaagcg tttccgtgcc gagcggcagg acaacaagga    420
gaactggctg cactctcagc agcgggaagc tgagcagagg gctgccctgg cacggctggc    480
agggcagctg gagtccatga cgatgtggga ggaattgact gcactgttgc gaagcgctgg    540
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tgaggctgcc accttggctg ggaggttgta cagcgggcgt cccaacagtg gctcaagaga    660
ggacagcaag gggctagcgg cacacaggct ggaacagtgt gaggtgccag agcgagagga    720
acaggaacag caggcagagg tttcaaagcc aaccccacc cctgaaggca ccagccagga    780
tgtgaccaca gtgacactcc tgctgcgagc cccacctggg agcacatcca gctcacctgc    840
```


5216

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ctcacccagc agttcaccca cccctgcctc tcctgagcct ccattggagc ctgccgaggc    900
ccagtgcctt acagctgagg ttccaggcag cccagagcca ccccccagcc cacccaagac    960
caccagccct gagcctcagg agtctccaac gctccccagc actgagggcc aggtggtcaa   1020
caagcttctg tctggcccca aagagacccc tgctgcccag agccccacca gaggcccctc   1080
tgacaccaag agagcagacg tggctggacc ccgaccctgc caacgctccc tgtcggtgct   1140
cagcccccgc caaccagccc agaaccgaga gtccacccc cttgccagcg gaccttcctc   1200
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taggcccctt gaaaacagag caggggggcc tgtggcacgt tcagaggagc ctggtgcccc   1560
gctgcccgtg gccgtcggca ctgccgagcc aggggggcagt atgaagacca cattcaccat   1620
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tgagcagacc cgagtgaaca aagcaccaga agggcggagc cctctgagcg ctgaggagct   1980
gatgactatt gaggatgaag gagtcttgga caagatgctg gatcagagca cggactttga   2040
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ggacaaggag cgggaacggc ggctgcagga ggcacggggc cggccagggg aggggcgcgg   2160
caacacagcc actgagacca ccacgaggca cagccagcgg gcagctgatg gctctgctgt   2220
cagcactgtt accaagactg agcggctcgt ccactccaat gatggcacac ggacggcccg   2280
caccaccaca gtggagtcga gtttcgtgag gcgctcggag aatggcagtg gcagcaccat   2340
gatgcaaacc aagaccttct cctcttcctc ctcatccaag aagatgggca gcatcttcga   2400
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cgagaagaag aaagagctga tgaaggcgca gagtctgccc aagacctcag cctcccaggc   2520
gcgcaaggcc atgattgaga agctggagaa ggagggcgcg gccggcagcc ctggcggacc   2580
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gatgctgctg gactggtgtc gagccaagac tcgcggccta cgagcacgtc gacatccaga   2700
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gatgatcatg ggcaagaagc ctgaccccaa gtgtgtcttc acctatgtgc agtcgctcta   2940
caaccacctg cgacgccacg aactgcgcct gcgcggcaag aatgtctagc ctgcccgccc   3000
gcatggccag ccagtggcaa gctgccgccc ccactctccg ggcaccgtct cctgcctgtg   3060
cgtccgccca ccgctgccct gtctgttgcg acaccctccc ccccacatac acacgcagcg   3120
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<210> 6570
<211> 2730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2280)...(1148)
<223> similar to gi5921491 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5217

<400> 6570
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aattaaatga attactgttc agaagtctcc cacttttcat acaaaaatac tgtgctactg   120
atacagttga aaaaattcaa tgatgtctct cctgcaggag aaattcacag catccccagg   180
gtcaacatga aatctggccc tgtccccgcc actggggggct ccccaggcct gcgttcctga   240
taaactggga caggttttcc aggcactgac caactatcca ccaagggtcc tctgcctcca   300
agacagaccc tgaatcaata gcagcaactt tcccatattt catgtaggga tatgtggagg   360
gggacaggaa ctctcccatt tccccagctg ggcctactac ctgcctgccc tgttcactct   420
ggtgccatga ggcaggttca gtgattgatt ggtcttgcct gctgcagagg acctggccag   480
ctccagaagg gtcactcatc aggtcctgca aaggtctgta tcattaatca gtgtcatcag   540
tgtcctcaga agacactagc agagtccagg gtgatgcgtt cagccacaag cacaaagact   600
gcttttttcta aagagcagga tgaggtgaat gtgggaacgg aaagcagttg tcacgaaggc   660
tgtgtggctc tgctggggga gaggcatcca cagtctgtgc caaggaggta cctcaccctg   720
tgcagcagga gcgttaaggc caaaaaacaa aaggggccaa cagaaaacag ctcaggtgat   780
gggggggagga gcagcaagaa aaaacgacaa ccgagaccaa ctgaaggttc ggtcaggaat   840
gcaggctctt ccgtctatac agtgtttaaa aagatccaaa tgtgactgag atcattccag   900
cctgcacttt ttatttgtag gcagaaggaa cgggataggt tgaggggcat gacggggggct   960
ctcgccacct cttgtctgca cctctggaac aggtgggagc cgaatcattc aagtcctacc  1020
tggtcagact cccaaccacg ctgaggcagg cccttacctt ggattgcctc atgggcctcc  1080
ctcttgaaaa gaccctcact ctgtttggaa aagatccctt agcagccata atcaggaaag  1140
agactctaga gcgagcccag ggcttcccca aagcgggatt ttctgtcctg ttttcagctg  1200
gaaattgaag tccttggggg cctcgaagat gagcacgatg gtggagccca ggttgaactc  1260
gcccaggtgc tcgcccttac gcatggggac gccctctcta ttggtgtgcg tcacgaagct  1320
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gtagatgcga atggagcccc agttgggtgg cccccacagc tgtcagtgag aagaagccat  1440
gtttccagtc ccccgtcagg accacccgct cgttatggca gaagagctct ttgatccagc  1500
gagccatgcc agggttcact gacatcaggg agcctgggaa gtggcgccgg tgggacacag  1560
tccagtcggt gggggagtgg aagcagtggt agtccccagg ggccaggtag atgacacagt  1620
gatagagctc attcccttcc cgggtgacca gctggttctt gaaggagtca cacgacgcgg  1680
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gaatagaggg tcagggccgc gcccggcagg agataagatg tggaggaagt gagctcacgc  2520
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gcggggctcc tcaggccggg gccgcgtcgt cacagctggg agagcccacc tgcgaccgaa  2640
ggccctagaa gggcacccccc acccggcact ggccctctga gcgggcaggg tggggcgcct  2700
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<210> 6571
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)...(339)
<223> similar to gi5106994 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6571
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<212> DNA
<213> Homo sapiens

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<222> (1652)...(797)
<223> similar to gi4680699 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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5221

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5223

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        <212> DNA
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        <222> (94)...(1003)
        <223> similar to gi5834570 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




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tccgatgggg ggccctgctg tggcgccgta tgggctccgg gaacgcggcc gagtaagcga     180
cgcgcctgct gggccctgct gccgcccgtg ccctgctgct tgggctgcct ggccgaacgc     240
tggaggctgc gtccggccgc tcttggcttg cggctgcccg ggatcggcca gcggaaccac     300
tgttcgggcg cggggaaggc ggctccccgg gccagcggcc ggagcgggcg ccgctgccga     360
agccccgggc ggccagtggg gcccggcgag caccccccagc ctgtatgaaa acccatggac    420
aatcccgaat atgttgtcaa tgacgagaat tggcttggcc ccagttctgg gctatttgat     480
tattgaagaa gattttaata ttgcactagg agtttttgct ttagctggac taacagattt     540
gttggatgga tttattgctc gaaactgggc caatcaaaga tcagctttgg gaagtgctct     600
tgatccactt gctgataaaa tacttatcag tatcttatat gttagcttga cctatgcaga     660
tcttattcca gttccactta cttacatgat catttcgaga gatgtaatgt tgattgctgc     720
tgttttttat gtcagatacc gaactcttcc aacaccacga acacttgcca agtatttcaa     780
tccttgctat gccactgcta ggttaaaacc aacattcatc agcaaggtga atacagcagt     840
ccagttaatc ttggtggcag cttcctttggc agctccagtt ttcaactatg ctgacagcat    900
ttatcttcag atactatggt gttttacagc tttcaccaca gctgcatcag cttatagtta     960
ctatcattat ggccggaaga ctgttcaggt gataaaagac tgatgaaagt catccctcac    1020
tgttagtaag gaagcagtat acatcaatgg gaacagggcc catggaaatg tacaggagtt    1080
tccctatttt ggtgttcagc ttgaaaaagg acttgtcaga atcaactgtg tcatcaaaat    1140
ttaagtaatg tgcattgaaa ataaggttga tcatgggaat atgcagaatt ccaatgtat     1200
ttttaaatac aaataaaatt gtaatttaga atttttaatc ttaggtttct tgattaattt    1260
ataagagatc aattattgtc agtctttttt gtatgttttt taaaaacata gtccagagca    1320
tgggcagaat tgacacctct cttttaagtg aaatttggat tgctcacaaa gcactaggaa    1380
atgtcatggg gttcaaatat atatcctaca caactgggca atacattttt gtttgatttt    1440
taggtctgtg tatacattaa cagttcatgt aattaatacc tgatcatttg ggataatgaa    1500
agtgaagtta gttgtagatg aagtaaagtt ataaagaga ttaaaaatgc ggtaactttt     1560
taagataata atcatacaga aggtatgaag ttcattttcg gtagtcttcc aacctctcag    1620
gtgcctaata atttatgttt gaggataaca ggtaacaaag atagtcgaga taggagaacg    1680
tgtctattag tctttgcatc taaaaggcag tgagttacgt tcctgccttc cactgtgttt    1740
ctgacatagc aatgtttgtt tgatattgga acctggattc atattttatg taaataatat    1800
caagctgtat atttttcaaa ggttttttaa actttggaga ctctttctttt tgttaagcag    1860
ttaaaggaat aaaagagctg gaaaaaaaat tgtaccttca actcaggttg ttccatataa    1920
catacgtatt ctctgctgtt acgtaagttt tccgattcac agagtccatt catgtacatc    1980
acttacactt aaattgtaaa aataattagt ctgaccatct gactttaaaa gactgttgct    2040
acacgtacat catgtttagg agaatgtggg atatggggaa ggggagaaga agacagtcca    2100
```

```
gtggtgacta gttgctgctg cttaacctat ggcctattgc tgcccattgt ccctggtttt   2160
aatccaagcc tattatggaa tactgcagtg agattatcca ttctcagcct gttgagctgc   2220
attaaattag aatgggaggc tgtaagtaaa actcatgcct cttggccagg cattctgcac   2280
cagcgtgtcc ctctgtggct tgctggtcct ggttgttctc agactggcag ctgagctgcg   2340
cttggcttga agcatactga agcctgcagc cagggacacc gccattgaat cagatggagg   2400
gggatgaaaa agcagagaag ggggcatgtg gctggctatt cttgctctct ggagaacagc   2460
ttcattgtta ggagtagtta ggctgaaagt ggacttccca ctgctgagcc acccaagagg   2520
cacactgagc attagtgacg ggtgagccac ataagaataa tgtttaaaaa agagaggact   2580
tgaagtagct atgcgaaaat ttagaacttt gcactttgtt aacgcttatt tatggtttag   2640
tgttgatgcc atttggagtg acctatgggt tggacccata tcttttttatt attaaggtct   2700
caatctggct ctggttaata aacgtttccc gcttcatccc ttaggaaaat ggtccaagtc   2760
tcctcaggct tttggatact gaattgttat aaaacacatc aattctgcca gtttataaaa   2820
cactggaatt gtattagaca tgtctgagta tgtacttgtt tatagactca aaacatgatg   2880
aaaattca                                                            2888
```

<210> 6576
<211> 2562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1899)...(794)
<223> similar to gi1518458 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 6576
tttttttttt ttttaaagcc tggattgtaa ccagattttc tttttttcccc cttctcagct   60
gtagatatga tatctccttt cagggcccca gcttaagggc aaagtgagtt aatgtgtaga   120
caaaggcgag ggacaagaga gagttaacat ctagacagtg gaaaaagcca tggtgtgtgg   180
tttctgggaa ccaccaacac ttgcaggttt agcttttttcc cagggttgac tacaagaaag   240
aaaaccatgt ttttgcaaga ttaaaatgtg gttgagtgtg cctaaattaa ccatccccat   300
ttttatcata tttccaccat cacttcaggg ttttaagagt cagtgctcac ctgggcggag   360
ctggtagtac attttgcttc ttagaaagct aagtcctggg ttccgtctga ttttaggttc   420
caggaacttc ctgagaacac ccgatcgcag agggtaattt tctggagttt gttttgcagg   480
gatagctggg agtatggcca ccctgctcca cgatgcggta atgaatccag cagaagtggt   540
gaagcagcgc ttgcagatgt acaactcgca gcaccggtca gcaatcagct gcatccggac   600
ggtgtggagg accgaggggt tgggggcctt ctaccggagc tacaccacgc agctgaccat   660
gaacatcccc ttccagtcca tccacttcat cacctatgag ttcctgcagg agcaggtcaa   720
cccccaccgg acctacaacc cgcagtccca catcatctca ggcgggctgg ccggggccct   780
cgccgcggcc gccacgaccc ccctggacgt ctgtaagacc cttctgaaca ctcaggagaa   840
cgtggccctc tcgctggcca acatcagcgg ccggctgtcg ggtatggcca atgccttccg   900
gacggtgtac cagctcaacg gcctggccgg ctacttcaaa ggcatccagg cgcgtgtcat   960
ctaccagatg ccctccaccg ccatttcttg gtctgtctat gagttcttca agtactttct   1020
caccaagcgc cagctggaaa atcgagctcc atactaaagg aagggatcat agaatctttt   1080
cttaaagtca ttctctgcct gcatccagcc ccttgccctc tcctcacacg tagatcattt   1140
ttttttttttg cagggtgctg cctatgggcc ctctgctccc caatgcctta gagagaggag   1200
gggacggcac ggccgctcac cggaaggctg tgtgcgggga catccgaggt ggtggtggac   1260
aggaaggact tgggaagggg agcgagaaat tgcttttct cttcctccct gggcagaatg   1320
tagcttttct gcttcactgt ggcagcctcc tccctggatc cttagatccc agaggaggga   1380
```
```

                              5225
```

```
agaaaatttg cagtgactga aaacagtaaa aaaaaaaaaa tttatgtata taaaagttgc    1440
attacacagt acaaaataga tggataatgt ttatccttta tttttctatg tagaagtttt    1500
tgaatttgtg tgtgtgcttg tgcgtgtcta cacctagtat tacggctggg actctccagc    1560
tgttttttgtt gttgttatgt ttttaagagg gttgaattct tccatcaggt gaacgaaaaa    1620
ggcaacaaag taataaatca gtgaatgtgg ccggcagctg tgtttagccc ctccagatgg    1680
aagtttcact tgaatgtaaa ataataaagt ttatattttg aatttctctt ttcatggggg    1740
aaaaaaggta cgttaaaaaa atcaaaataa tgatatgtca cttgcagcta ccttttttttt    1800
ttcttttaaa ttcaatcagc caccttcatg tgcctttttc ctttgtcttt ccccaaaatt    1860
ccaggaccag agatctggcc ctggctaatt ttctcttgct gtgtacacac acgcacacat    1920
gccgactagc gcctccgtgt ccacccacat gacagcagga gcgatggccg ggatcctgga    1980
gcactcggtc atgtacccgg tggactcggt gaagacacga atgcagagtt tgagtccaga    2040
tcccaaagcc cagtacacaa gtatctacgg agccctcaag aaaatcatgc ggaccgaagg    2100
cttctggagg cccttgcgag gcgtcaacgt catgatcatg ggtgcagggc cggcccatgc    2160
catgtatttt gcctgctatg aaaacatgaa aaggacttta aatgacgttt tccaccacca    2220
aggaaacagc cacctagcca acgggatagc tgggagtatg gccaccctgc tccacgatgc    2280
ggtaatgaat ccagcagaag tggtgaagca gcgcttgcag atgtacaact cgcagcaccg    2340
gtcagcaatc agctgcatcc ggacggtgtg gaggaccgag gggttggggg ccttctaccg    2400
gacctacaac ccgcagctga ccatgaacat ccccttccag tccatccact tcatcaccta    2460
tgagttcctg caggagcagg tcaaccccca ccggacctac aacccgcagt cccacatcat    2520
ctcaggcggg ctggccgggg ccctcgccgc ggccgctcta ga                       2562
```


<210> 6577
<211> 1433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(1011)
<223> similar to gi3859998 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6577
```
ggaattcaat tacccagcct aaccatttct caggtgcttg cgaggtgatc agaaggcaaa      60
gatgtcggag cgaaaagtat taaacaaata ctaccgccg gactttgacc catcaaagat     120
ccccaaactc aagctcccca aagaccggca gtacgtggtg cggctgatgg ccccccttcaa    180
catgaggtgt aagacgtgcg gagaatacat ctacaagggg aagaaattca atgctcggaa    240
ggagacggtg cagaacgagg tctacctggg cctgcccatc ttccgctttt acatcaagtg    300
cacgcgctgc ctggcagaga tcaccttcaa gacagaccct gaaaacacag actataccat    360
ggagcatgga gccacgcgga atttccaggc tgagaagctc ctggaggagg aggagaagag    420
ggtgcagaag gagcgggagg acgaggagct gaacaacccc atgaaggtgc tggagaaccg    480
gaccaaggac tccaagctgg agatggaggt gctggagaac ctccaggagc tgaaagacct    540
gaaccagcgg caggcgcacg tggacttcga ggctatgctg aggcagcacc gcctgtcgga    600
ggaggagcgg cggaggcagc agcaggagga ggacgagcag gagaccgcgg ccctgttgga    660
ggaagccaga aagcgaagac tgctggagga ctccgactca gaggatgagg ctgctccctc    720
gcccctgcag ccagcccttc ggcccaaccc caccgccatc ctggatgagg ccccaaagcc    780
caagaggaag gtggaggtct gggagcagag cgttggcagc ctgggcagcc ggccccgct     840
gtcgaggctg gtcgtggtga agaaggcaaa ggccgacccg gactgcagca cgggcagcc     900
tcaggcggcc cccaccccag gagccccgca gaacaggaag gaggccaacc ctacaccct     960
gacgcctggc gcgtcctccc tgagccaact gggtgcatac ctggacagtg acgacagcaa   1020
```
                                5226

```
cggcagcaac tgagccctcc caggaccccc tcacggggtc aaagtcacac gtccagcttc   1080
agccacattg aggccagcat tgctggtggt cagggcagga ggccttggcg tgactggagg   1140
ccggacagac aagcgccagc gtgctccaac acatagggcc accaggggcc tcagccccag   1200
gaggtccctt ctctgtgccc tcaccagcct ctcaacacct cggggacccc tgctgctcct   1260
gcccccacct gtcactgtgc ttagggctgc aacatccctg gagcagcttc caacactact   1320
tcagggtggc agtgtttggg gcactgggcg agcctgccgg cctctagatg gcctcatctc   1380
ttccttccac aaactgtcta gaaccaataa aaggaaacct gccaaaaaaa aaa          1433
```


<210> 6578
<211> 2291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1847)...(118)
<223> similar to gi2950170 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6578
```
ttttgtttaa taagttgctt aaatttcttc ttttttttttt tggtagcctg agagggcctc     60
tccattcttt attcagtccc aataagttaa agggcaaggg taggggggcag ggcctcttag    120
gtgaggacgc tgctaactga aggcagcagt tcagccagtt gctccaagat gcccaccgct    180
tggcacagcg ggttaccctg caggttgagg aggaccagcc tggggcagga ggcaagaggc    240
tggagcactg caggctgctg gaggcggttg ttgcacagta gcagctcctg cagccggggt    300
aggttggtga cgccgtccag ggactctatg gcattatcac tggcctgcag cacctgttcg    360
gggtggaggg tcctcaaggc agcgcagggc agccagtgca ggtggcaggg ttcggaggcg    420
attgtgtgac aagtcaagat gggtgaccaa gagcagctgt tccagatggc agagcactgt    480
cagatccttg tgagccaggt gcagcacacg cacctcggca tactccatct tgagcacgct    540
attctccagc aagaacttgc tgcgcaggtc atcaagaata cgttgcccgc ttggggtccc    600
aggcctttga gggtctggaa gtactgcagg gtctccttct catacagcag ggggtccagt    660
gcccgcatca gcaggatgat ggtaagccag gcaccattta ttctcaggct ccagctcctg    720
cagctcctta caggattcca gctcagactg cagcactgtg gacttctcca ctgacagctc    780
acacctgaat agctgctcgt ctgtcgtgga gtcccggcac cagccctcct ggcggccttt    840
taaaagcacg cattctttct ggacatcgcc tgctgtccaa atgacgcgaa atgtatgttg    900
gggcaactgg tcgttgaggg aggcagcagg caggtcacag agccagacat ggctgggccg    960
gttcctgcca tctggggtcc tccactccac aatcagggga gaatcatcaa ccatgagcag   1020
caagatctcc atcctggagc ccactaagag gggccgagag aaggagacag tcagacaggc   1080
ctcgtcccgg ctcacatgca ggcagcgcag tgcatcctgg gggtcagctc ggcctaggag   1140
ccaacggtga taaaaccagg cactctggtc attggggtca gtgaagaagg cattctgcac   1200
cagctccagc tctttgagca gcacatcctc agggaggcgc ccctgtggtc cagaatccgg   1260
ctggggggtgc agctggggca agagacagga gcggtaatgc caggaagagt agttggagaa   1320
gtttcgggtg atgaggctgt cagtgaaggc tagctcttct gcaggggggca cggctgcctg   1380
tgtggccaca aaccgccgat agtcccagca gtgaaagttc cgctcatcca cctccaggaa   1440
acgggcacag agctccagct ctcgggtcca gttgggctca ggcaggcggc ctagcagcca   1500
gcatcggtgg tgccaggtac cataagactt ggggttcacc cgcaggcagc tctccaggaa   1560
gcccagttct gccttcacca gagcagccaa ctcttcagga gacttctgag tctccagctg   1620
ctggagcacc tctcgtcggc agttccagag ggtggcaaaa tcagggttgg ctcccagaat   1680
ctggcttgtc agttccagca cggactcatc cagctcacca gcctggcgct tctggaatac   1740
ggcctgggtg gctgactggt atagcttcag cttctgctct cgctctagcc ttttggcctc   1800
```

5227

```
cgcctgctct  tctgacgtct  tcaccttcag  gcgtccgtgc  atggtgccgg  ctcagggttc     1860
aagacagggg  aagggtccag  tggtagccct  tgaagtctga  ggagagaagt  gtcaatcacg     1920
tagccccgcc  cctactagct  ccgcccacag  ctgtgtccgg  aagcagcaag  cgtgcctggg     1980
cagagacccc  cagagtgtaa  agaggtcctg  ggacaggctt  tgcacgttcc  acaagagtgt     2040
ctcgctgtgt  cgtctagact  ggagtgcagt  ggtgtgatca  tggctcaact  cctaggctca     2100
agcgatcctc  ctgcctcagc  ctccggagta  gctgctggga  ctgcaggaac  gtgccaccat     2160
gcctggctca  aacacaaagt  tttttcataa  aactcacttg  gcggcaaaat  tctaccttac     2220
ctgaagttat  ttacggggtt  tttaatttcc  actttgaata  aatattcaca  tcttgttgag     2280
taaaaaaaaa  a                                                              2291
```

<210> 6579
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (212)...(590)
<223> similar to gi4929689 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 6579
tctcgctcag  gctcggtttt  accccggagt  ctattcgaag  ggggctgcta  cgtcagcgcg     60
tctcagcgta  agacggcgct  attccgctgt  aacagcttcc  ggcgggtcct  ggatgttgat    120
gtcctgcatc  taacgcggtg  taaccccga   agccgagcga  gctccggagg  aatttcagta    180
tctgctacgg  taacttcatc  agcccgccaa  gatggcgatg  caagcggcca  agagggcgaa    240
cattcgactt  ccacctgaag  taaatcggat  attgtatata  agaaatttgc  catacaaaat    300
cacagctgaa  gaaatgtatg  atatatttgg  gaaatatgga  cctattcgtc  aaatcagagt    360
ggggaacaca  cctgaaacta  gaggaacagc  ttatgtggtc  tatgaggaca  tctttgatgc    420
caagaatgca  tgtgatcacc  tatcgggatt  caatgtttgt  aacagatacc  ttgtggtttt    480
gtactataat  gccaacaggg  catttcagaa  gatggacaca  aagaagaagg  aggaacagtt    540
gaagcttctc  aagggagaaa  tatggcatca  acacagatcc  accaaaataa  atgttttcta    600
cattttcatt  tggactaaat  cccacgaatg  acaactacca  cctttttttt  ccttttttaat    660
taatactaaa  tattgtgatt  tcttatttga  ggttcaaaat  gacctggctg  gaaactttga    720
tacatattgg  aatacattat  gttaataaac  ttgtaatctt  tttgtgaaaa  aaaaaa        776
```

<210> 6580
<211> 2585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (220)...(1654)
<223> similar to gi516381 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6580
```
tttttttttta attcctgagg ggtggttgct gcttttgcta catgacttgc cagcgcccga     60
gcctgcggtc caactgcgct gctgccggag cgctcagtgc cgccgctgcc gcccgccgcc    120
cccccgcgcc ccgttcggca cccaccggtc gccgcgccgc ccgcgcgccg ctgtcccgct    180
cccgcgccgc cgccgccgtt tcccccgac gactgggtga tgctggacat gggagatagg    240
aaagaggtga aaatgatccc caagtcctcg ttcagcatca acagcctggt gcccgagggc    300
ctccagaacg acaaccacca cgcgagccac ggccaccaca acagccacca cccccagcac    360
caccaccacc accaccacca tcaccaccac ccgccgccgc ccgccccgca accgccgccg    420
cccgagccg cgcagcagca gcagccgccg ccgccgccgc tcgccccgca ggccggcggc    480
gccgcgcaat cgaacgacga aaagggcccc cagctgcttc tgctcccgcc gaccgaccac    540
caccggccgc cgtccggagc taaagccgga ggctgctgcc ggcctgggga gctggggccc    600
gtcgggccgg acgagaagga gaagggcgcc ggcgctgggg gggaggagaa gaagggcgcg    660
ggcgagggcg gcaaggacgg ggagggggc aaggagggcg agaagaagaa cggcaagtac    720
gagaagccgc cgttcagcta caacgcgctc atcatgatgg ccatccggca gagccccgag    780
aagcgcctca cgctcaacgg catctacgag ttcatcatga agaacttccc ttactaccgc    840
gagaacaagc agggctggca gaactccatc cgccacaatc tgtccctcaa caagtgcttc    900
gtgaaggtgc cgcgccacta cgacgacccg ggcaagggca actactggat gctggacccg    960
tcgagcgacg acgtgttcat cggcggcacc acgggcaagc tgcggcgccg ctccaccacc   1020
tcgcgggcca agctggcctt caagcgcggt gccgcgcctc acctccaccg gcctcacctt   1080
catggaccgc gccggctccc tctactggcc catgtcgccc ttcctgtccc tgcaccaccc   1140
gcgcgccagc agcactttga gttacaacgg caccacgtcg gcctacccca gccaccccat   1200
gccctacagc tccgtgttga ctcagaactc gctgggcaac aaccactcct tctccaccgc   1260
caacggcctg agcgtggacc ggctggtcaa cggggagatc ccgtacgcca cgcaccacct   1320
cacggccgcc gcgctagccg cctcggtgcc ctgcggcctg tcggtgccct gctctgggac   1380
ctactccctc aaccctgct ccgtcaacct gctcgcgggc cagaccagtt acttttccc   1440
ccacgtcccg cacccgtcaa tgacttcgca gagcagcacg tccatgagcg ccagggccgc   1500
gtcctcctcc acgtcgccgc aggcccctc gaccctgccc tgtgagtctt taagaccctc   1560
tttgccaagt tttacgacgg gactgtctgg gggactgtct gattatttca cacatcaaaa   1620
tcaggggtct tcttccaacc ctttaataca ttaacatccc tgggaccaga ctgtaagtga   1680
acgttttaca cacatttgca ttgtaaatga taattaaaaa aataagtcca ggtatttttt   1740
attaagcccc cccctcccat ttctgtacgt ttgttcagtc tctaggggttg tttattattc   1800
taacaaggtg tggagtgtca gcgaggtgca atgtggggag aatacattgt agaatataag   1860
gtttggaagt caaattatag tagaatgtgt atctaaatag tgactgcttt gccatttcat   1920
tcaaacctga caagtctatc tctaagagcc gccagatttc catgtgtgca gtattataag   1980
ttatcatgga actatatggt ggacgcagac cttgagaaca acctaaatta tggggagaat   2040
tttaaaatgt taaactgtaa tttgtattta aaaagcattc gtagtaaagg tgcccaagaa   2100
attattttgg ccatttattg ttttgtcctt ttcttaaag aactgttttt ttttcttttg   2160
tttacttta gaccaaagat tgggttctag aaaatgcgcc ttagtatacc caagtattaa   2220
aacaaacaaa aaggaaagtt gtttcagttg gcaacactgc ccattcaatt gaatcagaag   2280
gggacaaaat taacgattgc cttcagtttg tgttgtgtat attttgatgt atgtggtcac   2340
taacaggtca ctttttatttt ttctaaatgt agtgaaatgt taatacctat tgtacttata   2400
ggtaaacctt gcaaatatgt aacctgtgtt gcgcaaatgc cgcataaatt tgagtgattg   2460
ttaatgttgt cttaaaattt cttgattgtg atactgtggt catatgcccg tgtttgtcac   2520
ttacaaaaat gtttactatg aacacacaga aataaaaaat aggctaaatt catataaaaa   2580
aaaaa                                                              2585
```

<210> 6581
<211> 4142
<212> DNA

5229

<213> Homo sapiens

<220>
<221> misc_feature
<222> (402)...(2070)
<223> similar to gi4753775 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6581
```
gaattcgcgg ccgctcgacg ctcagcagag ctaccagctg ccctgttggc ttcgctggtc    60
ggatcgtcct cctggccccg ccaaacaggc ggggggagcg gccccgactg tggggccatg   120
gcagtagtct cctcgttctc cgccgccgct agcctagctg agtcgccggc ttctgcgcta   180
ggggctccca ccgcctccgc aggctaagga gccgctgcca ccaacgagct gtgagggtta   240
ctatgctccc tctttgccgc cgtctcctcc tcttgcccgc gcaggcaccc ctctggctgc   300
tcagtcctgc ctcagtgtca aaccagaaga gaagtaaaat tcaacaaaaa tttatgtgtg   360
gagttccttc ttaaaagaag aaaaaagtga ttatttagac tatggatcgg agcaaacgga   420
attcaattgc aggatttcct ccacgtgtgg agccgtcttg aagagtttga aggaggtggt   480
ggaggagaag gaaatgtgag ccaggtggga agagtttggc catcttcgta tcgagctctt   540
ataagtgcct ttttcagact gacgcgtttg gatgatttca cctgtgaaaa aatagggtct   600
ggcttctttt ctgaagtgtt caaggtacga caccgagctt ctggtcaggt gatggctctt   660
aagatgaaca cattgagcag taaccgggca aacatgctga agaagtaca gctcatgaat    720
agactctccc atcccaacat ccttaggtat atcaactccg ggaacctgga acagttgcta   780
gacagtaacc tgcatttgcc ttggactgtg agggtaaaac tggcctatga catagcagtg   840
ggcctcagct accttcactt caaaggcatt tttcatcggg acctcacatc taagaactgc   900
ctgataaaga gggatgagaa tggttactct gcagtggtag ctgactttgg cctggctgag   960
aagatccccg atgtcagcat ggggagtgag aagctggccg tggtgggttc cccattctgg  1020
atggcacctg aggttctccg agatgagccc tataatgaaa aggcagatgt gttctcttat  1080
ggtatcatcc tctgcgagat catcgcccgc atccaggccg atccggacta tcttccccgc  1140
acagagaatt tcgggctgga ctatgatgct ttccagcaca tggtgggaga ctgtccccca  1200
gattttctgc aacttacttt caactgctgt aacatggatc ccaaactgcg cccatctttt  1260
gtggagattg ggaagaccct ggaggaaatt ctgagccgcc tacaggaaga agagcaggag  1320
agggatagga agctgcagcc cacagccagg ggactcttgg agaaagcacc tggggtgaag  1380
cgactaagct cactggatga caagatcccc cacaagtcac catgcccaag acgtaccatc  1440
tggctgtctc gaagccagtc agatatcttt tcccgtaagc ccccacgtac agtgagtgtc  1500
ttggacccat actaccggcc acgagatggt gctgcccgca cccccaaagt caaccctttt  1560
agtgctcgcc aggacctcat gggggggcaag atcaagtttt ttgacctgcc cagcaagtct  1620
gtcatctctc tggtatttga cctggatgca ccagggcccg gaactatgcc cctggctgac  1680
tggcaggagc ccctggcccc acctattcgc cggtggcgtt ccttgcctgg ttcgcctgag  1740
ttcttgcatc aagaggcttg tccatttgtg ggccgggaag aatcgctatc tgatgggccc  1800
ccaccacgcc taagtagtct caagtacaga gttaaagaga tcccaccatt ccgggcatct  1860
gccctaccag ctgctcaagc ccatgaggct atggactgct ccattctcca ggaagaaaat  1920
ggttttgggt ccaggcccca ggggaccagt ccatgccctg cgggtgcttc tgaggagatg  1980
gaggtagaag aaaggccagc aggctcaact ccagccacct tctccacctc aggcataggc  2040
ctgcaaaccc agggaaagca ggatgggtga gggggtttag tccctgcctc accttgggga  2100
tggaccttca gctgaaacca tatggccccc taggtgcaca gccttgattc ttccctggag  2160
cctacagagc aggcaggcta ggccaagcca ggctcaactt ctgggctccc agtgcccatt  2220
ggctgtgtat gacgggaggc agcagtgaga ggccttccta gttagggcca acagctgata  2280
ccaagcctct gaaatccagc aaggaggtct gcctcccacc agaccctctc cagtgtactt  2340
ccccagatag gaccagagga tgtctagttc taggctgagc tggcaggcag ctattacccc  2400
ggttctttcc ccaccccagg tctgtctctt gccttttctt ggggcatata agctactgag  2460
tggaacatgg agctgatcaa gaggccgtaa cggtcatggc tgtttcccag acctgaatat  2520
tggggtgctt cttgccagta ttctaagaca tttgagtaat tgctgtttgc acttactgca  2580
tggtcagacc acgtcactac atttctatgc aagggacag caaggcagcg tggtggtcat   2640
ggctcttagc taacctattc aaagaccttt tcctgttgat taatctattt tcatatttat  2700
```

5230

```
aaaggagtct taatgttctg ccccataaga ctttcaacct tgtggttggg agtggggctg   2760
gttttgtagg ccctagggcc tgcttctatg tatttatcaa catgtgatac attcaattgg   2820
ttaaatggtt tatacaggga ctgatttgct tcccttcctg ccctggctgg gagctttggg   2880
gaacagtctg tcccttacag agctgcaata agaaataacc aaagatgaag ctggtcaaat   2940
attttcataa cttgacttct gttgattttt ttttttgta aaactttccc aaggacattt   3000
tcagacttaa aaataaagtc agtgttacag gtgctggtca gccttcttac ttgtacctca   3060
aacactggga taaaggaggc ggtccagggc aatgcagtga tgtctgtcaa gacattcccc   3120
ctcccctaaa ctcagtagca gttgaggatg acatttcagg ctagagagac ccaaaatacc   3180
tctgttccac ctgagagcaa ggtgggaagt tgcatcagct acttgcccca agtgagcttc   3240
atcttctgga ttgtggggct ttgggaggga acgaggagga actgggctct tggggccact   3300
gtgaggggta cagctttgcc cactcaaata taccttattg tggcattcag ggagccaggg   3360
tccagagctg cagggctgcg gtccctggct cacttccaca taggccatca cataacctgt   3420
cataaaggca tcaaaaccag cccggtgcaa tccatcccca ggcactgggt taggactggc   3480
ttggctccct ggcacttctg aggtagctct atcagctatt tcaggccttg ctgccttaat   3540
ccccatctct aagtcatttt tgttgccttg cttggagtga ggcaggttcc tagtttcatc   3600
ggcagccacc tcctgctcgg tttcttcagg cttgatgcta tccccacaga cctgcttctt   3660
gggaggacca tccttagctt ccccagaggt ctgtgtcccc ggtaggttca ataaagccct   3720
cttccgtttt tccctacgtc gtcgccgtcg ccgcttgtcc tctgccgcag cctcatcagt   3780
gtcaatgata aggtcaatat cgtgagactg aggacactgt ggtcccaggg ggcaccagcc   3840
ataagccgag aagttgtcac agatgctggt gggatgagga cggtgggttg ctgggggcag   3900
gcagcagcgg taatcaatat ggtccctcat gctggaagga tagttgcaga actccagggt   3960
aaggtgtggg ctgccagctg cccgctgctt cccattttcc cgttcactgc aacagcgcaa   4020
gagggtaatg gtccactagc atataagctc cataagagca gggtttgtg gtctgttttg     4080
ttcactgctg aatcctcagc acctaaaaca ctgcctgggc acatggtagg agctcaataa   4140
at                                                                   4142
```

<210> 6582
<211> 2506
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (451)...(1515)
<223> similar to gi183438 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6582
```
cctccgccgc ctcctcctcc tccggcagcc gcggcagcag gacccaccct gcccccacc     60
ccaccctctg tcggctccgg ctgcggctcc agcctcgact attattttat ttattttggg    120
tcgtgcacaa gcctcagtgc ctgcagtccg cgcctcctcg gcccgcgggc gcctcctccc    180
ttggctccgg agccccagac cccggccacc ctcgattcga caaccccaga cccctgccag    240
ctgccgcgag tctccgctgc tggaatcttg ttagcggctg tcttttttgga gggttctggt   300
ttcccgacat ttttgtttcc agcccaggag aggatatcgt gattttcccc ccttgagccc    360
aggctctgct ctctgggggg gtgggggggcg ctccaagccg gggagccgtg ccagccgagt   420
cgtgcgggct gtggcaggga aggggccacc atggatgta ctctgagcgc agaggagaga     480
gccgccctcg agcggagcaa ggcgattgag aaaaacctca agaggatgg catcagcgcc      540
gccaaagacg tgaaattact cctgctcggg gctggagaat caggaaaaag caccattgtg     600
aagcagatga agatcatcca tgaagatggc ttctccggag aagacgtgaa acagtacaag    660
cctgttgtct acagcaacac tatccagtcc ctggcagcca tcgtccgggc catggacact   720
```

```
ttgggcatcg aatatggtga taaggagaga aaggctgacg ccaagatggt gtgtgatgtg    780
gtgagtcgga tggaagacac cgagcccttc tctgcagagc tgctttctgc catgatgcgg    840
ctctggggcg actcaggaat ccaagagtgc ttcaaccggt cccgggagta tcagctcaac    900
gactctgcca aatactacct ggacagcctg gatcggattg gggccgccga ctaccagccc    960
accgagcagg acatcctccg aaccagggtc aaaaccactg gcatcgtaga aacccacttc   1020
acattcaaga acctccactt caggctgttt gacgtcggag gccagcgatc tgaacgcaag   1080
aagtggatcc attgcttcga ggacgtcacg gccatcattt tctgtgtcgc gctcagcggc   1140
tatgaccagg tgctccacga agacgaaacc acgaaccgca tgcacgagtc tctcatgctc   1200
ttagactcca tctgtaacaa caagttgttc atcgatacct ccatcattct cttcctcaac   1260
aagaaagatc tctttggcga gaagatcaag aagtcacccc tgaccatctg ctttcctgaa   1320
tacacaggcc ccaataccta tgaagacgca gccgcctaca tccaagcaca attttgaaag   1380
caaaaaccgc tcacccaaca aagaaatata ttgtcacatg acttgtgcca cagacacgaa   1440
taacatccag gtggtgttcg acgccgtcac cgacatcatc attgccaaca acctccgggg   1500
ctgcggcttg tactgacctc ttgtcctgta tagcaaccta tttgactgct tcacggactc   1560
tttgctgttg acgttgatct cctggtagca tgaccttttg gcctttgtaa gacacacagc   1620
ctttctgtat caagcccctg tctaacctac gaccccagag tgactgacgg ctgtgtattt   1680
ctgtagaatg ctgtagaatc cggtttttagt tgagtcttca catttagaat ttgaaaggaa   1740
aaacagaaca tttctcatgt gctttgtagc ttaaaaaaag gaaaactcac catttcatcc   1800
atatttcttt ttcttgcaaa acaaacatac ccatctgcac cgacgcctgc ccccgtccca   1860
cctcgcggcg cagcccctgg agctcctgct gggggggcagg gcccatctgc cgcctggggc   1920
tccggtgcgg tgcactggtc cgaggagtgt gctcaggccg ggctttccag aaggccacag   1980
gccactgcaa accctgctgc ctgccggccg cccagacacc acagacgcca cctggcggcc   2040
ctaagccact cccgccacac gctcactcca ggttcgtata gaaaaagcac agctctcact   2100
ggccagtagc tgccaaaaag aacacccatc gtataaggaa atccagcccc atagaaaaca   2160
atctgcccac cgaccccctt tctaaggata gcctttgtag gggtttttttg gttccttttt   2220
tttttttaa agttttggtt ttaatttgg ccccgccgag tactatgtat tacccccccc   2280
cccccccaaa aataattttt cttatttttg ggaaaagggg tggggttttt tttctttggc   2340
cgggtggaat ttcgggcccg ggttaaccct tcttttgggg ggggcccccc cccccccct   2400
tgcttttgtt tggggggcct gggccccttt tttaatgggg ggaggttggg gctgcaaaca   2460
aaaaaaacaa aaaaaattt ttaatccccc caggagggaa aaaaaa               2506
```

<210> 6583
<211> 1919
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (119)...(1034)
<223> similar to gi5059323 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6583
```
gggtgagcgg gatcagtgtg tgcggaacgc aagcagccga gagcggagag gcgccgctgt     60
agttaactcc tccctgcccg ccgcgccgac cctccccagg aacccccagg gagccagcat    120
gaagcgagct caccccgagt acagctcctc ggacagcgag ctggacgaga ccatcgaggt    180
ggagaaggag agtgcggacg agaatggaaa cttgagttcg gctctaggtt ccatgtcccc    240
aactacatct tcccagattt tggccagaaa aagacggaga ggaataattg agaagcgccg    300
acgagaccgg atcaataaca gtttgtctga gctgagaagg ctggtaccca gtgcttttga    360
gaagcaggga tctgctaagc tagaaaaagc cgagatcctg cagatgaccg tggatcacct    420
```

5232

```
gaaaatgctg catacggcag gagggaaagg ttactttgac gcgcacgccc ttgctatgga    480
ctatcggagt ttgggatttc gggaatgcct ggcagaagtt gcgcgttatc tgagcatcat    540
tgaaggacta gatgcctctg acccgcttcg agttcgactg gtttcgcatc tcaacaacta    600
cgcttcccag cgggaagccg cgagcggcgc ccacgcgggc cttcggacac attccctggg    660
ggaccgtctt cggacatcac ccgcacatcg cgcacccgct gttgctgccc cagaacggcc    720
acgggaacgc gggcaccacg gcctcaccca cggaaccgca ccaccagggc aggctgggct    780
cggcacatcc ggaggcgcct gctttgcgag cgcccctag cggcagcctc ggaccggtgc    840
tccctgtggt cacctccgcc tccaaactgt cgccgcctct gctctcctca gtggcctccc    900
tgtcggcctt cccttctct ttcggctcct tccacttact gtctcccaat gcactgagcc    960
cttcagcacc cacgcaggct gcaaaccttg gcaagcccta tagaccttgg gggacggaga   1020
tcggagcttt ttaaagaact gatgtagaat gagggagggg aaagtttaaa atcccagctg   1080
ggctggactg ttgccaacat caccttaaag tcgtcagtaa aagtaaaaag gaaaaaggta   1140
cactttcaga taatttttt tttaaagact aaaggtttgt tggtttactt ttatcttttt   1200
taatgttttt tttcatcatg tcatgtatta gcagttttta aaaactagtt gttaaatttt   1260
gttcaagaca ttaaattgaa atagtgagta taagccaaca ctttgtgata ggtttgtact   1320
gtgcctaatt tactttgtaa accagaatga ttccgttttt gcctcaaaat ttggggaatc   1380
ttaacattta gtatttttgg tctgttttc tccttgtata gttatggtct gtttttagaa   1440
ttaatttcc aaaccactat gcttaatgtt aacatgattc tgtttgttaa tattttgaca   1500
gattaaggtg ttgtataaat aatattcttt tggggggagg ggaactatat tgaattttat   1560
atttctgagc aaagcgttga caaatcagat gatcagcttt atccaagaaa gaagactagt   1620
aaattgtctg cctcctatag cagaaaggtg aatgtacaaa ctgttggtgg ccctgaatcc   1680
atctgaccag ctgctggtat ctgccaggac tggcagttct gatttagtta ggagagagcc   1740
gctgataggt taggtctcat ttggagtgtt ggtggaaagg aaactgaagg taattgaata   1800
gaatacgcct gcatttacca gccccagcaa cacaaagaat ttttaatcac acggatctca   1860
aattcacaaa tgttaacatg gataagtgat catggtgtgc gagtggtcaa ttgagtagt   1919
```


<210> 6584
<211> 2162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (132)...(793)
<223> similar to gi5420389 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6584
```
ggccggagga aaccaaccga gtgaaagagc gccagccgat tctgtattag tatgccgaga     60
acaagaaaga agaagatgaa ttggatggga aaaggagaaa agaggggggtg aacctggtga    120
tcccatttgt tccttcggct gataactcca acctctctgc tgacggagat gactccttca    180
ttaacgcgga ctcagccatg ccaagccctt tcagtgagat ctccatcagc agtgagctgc    240
acactggctc cattccctg gacgagagca gcagtgacat gctggtcatt gtggatgacc    300
cagcctcctc agcccctcag tctcgagcta ccaactctcc cgcatccata acaggctccg    360
tctcagatac cgtgaatgga atttccattc aggaaatgcc agctgcagga cgtggtcact    420
cagcccgaag ccgaggccgc cccaaaggtt caggaagcac agccaaagga gcagggaagg    480
gccggagccg aaagtccacg gcaggcagtg ctgctgcaat ggcaggagcc aaagccgggg    540
ctgcagcggc ctctgcagct gcctatgccg catacgggta caacgtgtct aaaggaatct    600
ccgccagcag tcctctgcag acatcccttg ttcggcctgc tggccttgct gactttggac    660
cttcaagcgc ctcttctcct ttgagttccc ctttgagcaa gggaaataat gttcctggga    720
```


                                5233
```

```
atcccaagaa cctccacatg accagcagcc tagccccaga ctctctggtc cggaaacagg    780
gcaaaggcac caacccctct ggaggacggt aaccatctgg gccctccgac ttccttcaac    840
caaaccaggg ctagagtcct gacctgccag tggtctttgg atggcttgcc ccgtgcagca    900
tcttgcatcc tgagtcagaa gtggaaatgt ccagcagggg aaggacaggc aggtggatgg    960
tgtgagcact tttatcatct gtgtctcatc aggagcatct ggggtgcctg taggaggaag   1020
gccacagggc atggatcagc cccactgcat ctcaagtgaa ctgtatagcc aagtcttaaa   1080
cctctcacgg ggcaagcctg acacagaccc cctttagatg ctcaggcata ctgtttccat   1140
cccgattcca ctcttcggct ctgacacgtc ccttgcaaag tctccgcagg tgctgtgaag   1200
agccttccat ggtagagatt tctcttaaga gtgtgatttc tcatagggct agtaagggag   1260
attgtatacc tgttgtccac agtcttcagg cagctcccca ggtctctgaa ccccagagtg   1320
tcatcattgg agagagcagt gactgcgaga gatggtggag gccgctaagc atggtagagg   1380
ctagaggaag tctatccaca ggcagttgtg ttcccagcaa ttcctcccat cctgcatggt   1440
tcacaccaag agaaccttca gatcctacca gcaaccgtag caccttccac ccaggggact   1500
cccagaagcc agtaaagaga ccaggagcca cctcaatcag caggacagcc tcactgcccc   1560
tcttgcagag tcccctttgc ccatcctgaa tgcacagtct ccctgctcat gcccttcagt   1620
cccctgcttg gctgtatgca ctgtctatat tgcactgaga gaggaaggga cagcaggagt   1680
gaggtgaaga gggcggagag aggggcagg ctcggcaccg gccctcccag cccggccagc   1740
ctgagcttgc tgccctccag tagagacaga ggggcagtgt ttgcatggga ggtgtttctg   1800
cctgtccctg cctgatgtcc ctggtggagc aggtacctcc gggcgggcaa gcctctgatt   1860
tgcacacctg aaaatcgcgg aattgagttt cgatagattg attttaaaa cttttttgga   1920
gtaggggta tagggaatc atttaattta aatcattaag attccctgc tcaaacccag   1980
attcctgtgt acagatgcta tttagaggga atcagaaaa tgccaagcct tttctcttt   2040
aatgtgctat ttttataact gaacttgtac atatgtataa agagagacac atcttccttt   2100
tactaactgg ataaaaaat tttaaataaa atggagtgag ataattttag gtaaaaaaaa   2160
aa                                                                  2162
```

<210> 6585
<211> 2081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1591)...(681)
<223> similar to gi5912261 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6585
```
ttttttttt ttggtgaaca agtacaaatt tagcaatttt aatcaatatt cttgcagaca     60
agtgtggata tgtatatgca tatatacata tatatatcaa aattgagaat ttacaaataa    120
gatttgatac atttattcta gcagtgggta agtccataga gtaaatttca agtaggatat    180
atttattttc tttggtggtg tttttaataa ttcctttcta ctgcatacaa agggacctga    240
agcttaaatt cagttagttt tggagaaatc caaaatgaga aaaacagaaa gcatgtagca    300
ttccatgaag caagaacagc gtgcatatgc tattcctgga aatactgaag tgtccgaatt    360
tcatgcctaa aaagtctgga aatcacactg aatcagttgc tggtttctga tgtctctggg    420
atgtgctatt acaaacaaac aaaaaaaagt agagaagcaa agttaacagc aaaactgaat    480
cctgttcatt gtccaggcca agaagtggga ctgagttcca gactgagatg accagaatgg    540
ccagtgtcca tctgtgacct tcctggcacc tagggcagcg gggctgagca cgctggctgt    600
ctttgctcac agcccctagt gcgacttagt tggtggggct gggcagggca agcttgcagc    660
atgacggtcc tgtgattacc actttccagg gatggagacc ccacactcgt accagcccac    720
```

5234

```
atagtagtag ggggttccga agccgatgtt cccaaacctg acaggctcct gacgatactg      780
gcgatagtag ccttgaatag tagggagggc ttctacatag gactgaggcc ctgttcttcc      840
atcaaggtgt gaatccacaa attggcaatg gtcttcacct cttccccagc tgtctccaat      900
gctgtagaat gtatctttca ggttgtcact gaggtagatt ttatacctca gtgaattaca      960
aagaacaact cccacgaact ttcgatacca cgtgcgcttc acatattgcc gtccatggca     1020
gtccgtgtag ctgggatcat gtttgaaagc gaatgggatc cagataggct caccgcctgg     1080
gggcctcaca acaagcagag gattatctga ttcggtgaca aatgagaccg aagggctgat     1140
aggtccgtag ccatgaggat tttgtgcttg cactttaaaa taatacctcg tgttgggctt     1200
taggttctca atgggcaagt gagttactga tgaagcctga gtggaccact tgttcctgat     1260
gaagtcttca taggatgcac tgtaaaccaa gtaacctgtg accacatctc ctggggtggc     1320
tttgtcccca atcccacaat gaacaaaatg aagtggcaaa ccttcccacg gccaacccac     1380
ggtgaatgtt gcggggagca tgctggggag gcagatcact cttcttcagg tcattgggga     1440
tgatttcatc caggctgtcc acttggaagt gatccagtgc atcagtcaga gagcacgggg     1500
ctgatgggtc tttatttagg tacgtcacgt aaggagcaac aaatcgtttc cttccagcca     1560
gatcaaattc ttcttcagga aaggaactga tggcgccttc ctctgggatc accctcggtg     1620
tggtagcagt ggtcgaaggc tcagtggtgg ttggtggcct tgacgtctca aattcataat     1680
cttcatcata tataacgtag gcctcttccg taggtactgc agtgtcagtc tccaagcctg     1740
agaactcatc ttcttcagcg tagcactctg ggatcccatt ggagctcatt atcaggttgc     1800
catcatcgtc gtgccgttcc aaggtcccag ggggacaggt ggggatggga gtggtgggtt     1860
tgggggtggt ggtggtggtt gtccgcgtag tggttcggac tgtggttgtt ggacgcctgg     1920
tggtcgtgcg gcgggtggtg gcagtggtgg gcctcggggt tgtagtggta ggcaggggcg     1980
tcgtagtagt ggtgggctgc atggtagtgg taggggggatg ggtggttttt ttgatgacct     2040
ccaagcccac cagcggcttt cctcgccatc ataaccgaaa a                         2081
```

```
<400> 6586
ggttttttgtt ttttgagccg caccccgcgg aggcgaggaa gcagcagccg cagcacagca       60
gcagctccaa tggcgttaaa atggagaatg atgaatcagc aaaagaagag aaatctgact      120
taaaggaaaa atctacagga agtaagaagg ccaatagatt tcatccttat tcaaaagaca      180
agaattcggg cactggagaa aagaagggtc caaatcgtaa cagagttttc attagcaaca      240
tcccatatga catgaaatgg caagctatta aagatctaat gagagagaaa gttggtgagg      300
ttacatacgt ggagctcttt aaggatgcgg aaggaaaatc aaggggttgt ggtgtggttg      360
aattcaaaga tgaagaattt gtaaagaaag ccctagaaac tatgaacaaa tatgatctta      420
gtggaagacc ccttaatatt aaagaggatc ctgatggaga aaatgctcgt agggcattgc      480
agcgaacagg aggatcattt ccaggaggac acgtccctga tatgggatca gggttgatga      540
atttaccacc ttccatactc aataatccaa acattcctcc tgaagtcatc agtaatttgc      600
aggccggtag acttggttcc acaatttttg ttgccaatct tgacttcaaa gttggttgga      660
agaagctaaa ggaagtgttc agcatagctg gaactgtgaa gcgggcagat attaaagaag      720
acaaagatgg caagagcaga ggaatgggca ctgtcacttt tgagcaagca attgaagcag      780
ttcaagcaat ttctatgttc aatgggcagt ttttatttga tagacctatg catgtgaaaa      840
```

5235

```
tggatgacaa gtctgttcct catgaagagt accgttcacc tgatggtaaa acaccacaat      900
taccacgtgg tcttggaggc attgggatgg gacttggtcc gggtggacag cctattagtg      960
ccagccagtt gaacataggt ggagtaatgg gaaatttagg tccaggtggt atgggaatgg     1020
atggtccagg ttttggagga atgaatagaa ttggaggagg aatagggttt ggtggtctgg     1080
aagcaatgaa tagcatggga ggatttggag gagttggccg aatgggagag ctgtaccgtg     1140
gtgcgatgac tagtagcatg gagcgagatt ctggacatca gtgatattgg attaagtcga     1200
ggctttggcg attcctttgg tagacttggc agtgcaatga ttggagggat tacaggaaga     1260
ataggatctt ctaacatggg tccagtagga tctggaataa gtggtggaat gggtagcatg     1320
aacagtgtga ctggaggaat ggggatggga ctggaccgga tgagttccag ctttgataga     1380
atgggaccag gtataggagc tatactggaa aggagcatcg atatggatcg aggatttta     1440
tcgggtccaa tgggaagcgg aatgagagag agaataggct ccaaaggcaa ccagatattt     1500
gtcagaaatc tacctttga cttgacttgg cagaaactaa aagagaaatt cagtcagtgt     1560
ggtcatgtaa tgtttgcaga aataaaaatg gagaatggaa agtcaaaagg ctgtggaaca     1620
gtcagatttg actccccaga atcagctgaa aaagcctgca gaataatgaa tggcataaaa     1680
atcagtggca gagaaattga tgttcgcttg gatcgtaatg ca                       1722
```

<210> 6587
<211> 3549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3550)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (22)...(2312)
<223> similar to gi4691726 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6587
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gcggccgcgt cgccgctgag gatgtcccga aaggggccgc gagcggaggt gtgtgcggac       60
tgcagcgccc cggaccctgg ctgggcatcc atcagcaggg gtgtgctggt gtgtgacgag      120
tgctgcagcg tgcaccggag cctgggacgc cacatctcca ttgtcaagca ccttcgccac      180
agcgcctggc ctcccacgct gctgcagatg gtgcacacgc ttgccagcaa cggggccaac      240
tccatctggg agcactccct gctggacccc gcacaagtgc agagcgggcc ggcgttaaag      300
caaaccccca aggacaaagt tccaccccat caagtcagag ttcatcaggg ccaagtacca      360
gatgctggca tttgtgcaca agcttccctg ccgggacgat gatggagtca ccgccaaaga      420
cctcagcaag caactacact cgagcgtgcg gacaggcaac ctggagacat gtctgcgcct      480
gctctccctg ggtgcccagg ccaacttctt ccacccagag aagggcacca cacctctgca     540
cgtggctgcc aaggcaggac agacactgca ggccgagctg cttgtagtgt atggggctga     600
ccctggctcc cctgatgtta atggccgcac acccattgac tatgccaggc aggcggggca     660
ccatgagctg gcggaaaggc tggttgagtg ccaatatgag ctcactgacc ggctggcctt     720
ctacctctgt ggacgcaagc cggatcacaa gaatgggcat tacatcatcc cacagatggc     780
tgacagcctt gacttatccg aattggccaa agctgctaag aagaagctgc aggcgctcag     840
caaccggctt tttgaggaac tcgccatgga cgtgtatgac gaggtggatc gaagagaaaa     900
tgatgcagtg tggctggcta cccaaaacca cagcactctg gtgacagagc gcagtgctgt     960
gcccttcctg cctgttaacc cggaatactc agccacgcgg aatcaggggc gacaaaagct    1020
```

5236

```
ggcccgcttt aatgcccgag agtttgccac cttgatcatc gacattctca gtgaggccaa     1080
gcggagacag cagggcaaga gcctgagcag ccccacagac aacctcgagc tgtctctgcg     1140
gagccagagt gacctcgacg accaacacga ctacgacagc gtggcctctg acgaggacac     1200
agaccaggag cccctgcgca gcaccggcgc cactcggagc aaccgggccc ggagcatgga     1260
ctcctcggac ttgtctgacg gggctgtgac gctgcaggag tacctggagc tgaagaaggc     1320
cctggctaca tcggaggcaa aggtgcagca gctcatgaag gtcaacagta gcctgagcga     1380
cgagctccgg aggctgcagc gagagatcca caagctgcag gcggagaacc tgcagctccg     1440
gcagcctcca gggccggtgc ccacacctcc actccccagt gaacgggcgg aacacacacc     1500
catggcgcca ggcgggagca cacaccgcag ggatcgccag gccttttcca tgtatgaacc     1560
tggctctgcc ctgaagccct ttggggggccc ccctggggac gagctcacta cgcggctgca     1620
gcctttccac agcactgagc tagaggacga cgccatctat tcagtgcacg tccctgctgg     1680
cctttaccgg atccggaaag gggtgtctgc ctcagctgtg cccttcactc cctcctcccc     1740
gctgctgtcc tgctcccagg agggaagccg ccacacgagc aagctttccc gccacggcag     1800
tggagccgac agtgactatg agaacacgca aagtggggac ccactgctgg ggctggaagg     1860
gaagaggttt ctagagctgg gcaaagagga agacttccac ccagagctgg aaagcctgga     1920
tggagaccta gatcctgggc ttcccagcac agaggatgtc atcttgaaga cagagcaggt     1980
caccaagaac attcaggaac tgttgcgggc agcccaggag ttcaagcatg acagcttcgt     2040
gccctgctca gagaagatcc atttggctgt gaccgagatg gcctccctct tcccaaagag     2100
gccagccctg gagccagtgc ggagctcact gcggctgctc aacgccagcg cctaccggct     2160
gcagagtgag tgccggaaga cagtgccccc agagcccggc gccccagtgg acttccagct     2220
gctgactcag caggtgatcc agtgcgccta tgacatcgcc aaggctgcca agcagctggt     2280
caccatcacc acccgagaga agaagcagtg acctctctcc ccacaccctc acctgcaccc     2340
taggacctca ctggccatag gagctgggcc actccagaca ttaatcccca ccccaacaga     2400
gccactggca caagtgccct tagtgctgcc acactccctg gcagccaggt gccctggtgc     2460
ccacccctgt cgagccccta aggatggggga ggtggggggg caggagcttc tgtcccccac     2520
attccatgca cctcccctct gtatatagca tctcccccct cctagtgagc aggggcctgc     2580
aaggcatcac tcccagcccc tcgccttcta gggcaccctc agcaaagggg caggtgggga     2640
cactccaagt ggggcagctc tccgtacatg cgccccaccc ccatgagcca gttcagccct     2700
actgggggct gagcgggggc atcccctcct ttgtacatag tctccatgga tgtccctgcc     2760
ctgtagccac cagccccttg ctgctctccc tttaatgcca tatggcccct gcctagggca     2820
caggccccaa cctgtgtgct ggggtcccca gcagcaaaca ctggaaagtc tgtttttttt     2880
ttttctttct tcttccccac cccttaattt taactttgtg gtaactgagt gccccgcgt      2940
gcctgcgtgt tgagtgtgtg gggcggcagt gccgttccgg aggcctgggt ccatgtggga     3000
gttttgaggg gtgaggggac cagagcagtg ggaccagcat ggggatcagc ttcccttccc     3060
cacctggagc cagggactgt ccgggtagcc agttttggtc ctgccagctg cctccctgat     3120
ccctccccac tctcgcccct tctctatgaa cttaaatcaa aaaccacttc cctccatctc     3180
ctcctgctcc tgcgtggagg gggaatgtgt gctggctagg gtggaggact gagcacctga     3240
gcctggggct ggctccccgg ggtccccgac tcagctggtg gctgtggagc tgagtccct      3300
ccccgtaacc tctgcaaggc cagcacccac catcactacc tgcacctgct gtggtcccac     3360
cctctggagg cctgggaacc tggctgcagc ctgggaaggc tggagaggca gacggtggga     3420
ncccaccagc tctctcccca tcccgcttct tccctggggg ccagggccct acctgtgtgg     3480
tggtgggtgg gctgtcaaga cgtgtcatgt acatttgtat caaaaataaa gaagtggcca     3540
tgaaaaaaa                                                            3549
```

<210> 6588
<211> 2326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (113)...(1329)
<223> similar to gi3342218 in the genepept database release 114,

<400> 6588

```
actaacctat gaggattttt taatttgaga gccctcaaat gggccagtgg tctagtcagc    60
attgggaaat gaagatgatg agatcctgta actcggaaaa gatatcagag gaatgttcgt   120
ggcatcagag agaaagatga gagctcacca ggtgctcacc ttcctcctgc tcttcgtgat   180
cacctcggtg gcctctgaaa acgccagcac atcccgaggc tgtgggcttg gacctcctcc   240
actcagtacg tgtccctgtg cgacctggga cgccatctgg ggcattgtgg tggaggcggt   300
ggccgggggcg ggcgccctga tcacactgct cctgatgctc atccatcact ggtgcggatt   360
gaccttaatc aaggagaagg agaagaagag ccctgtgggc ctccactttc tgttcctcct   420
ggggaccctg ggcctctttg ggctgacgtt tgccttcatc atccaggagg acgagaccat   480
ctgctctgtc cgccgcttcc tctggggcgc cctctttgcg ctctgcttct cctgcctgct   540
gagccaggca tggcgcgtgc ggaggctggt gcggcatggc acgggccccg cgggctggca   600
gctggtgggc ctggcgctgt gcctgatgct ggtgcaagtc atcatcgctg tggagtggct   660
ggtgctcacc gtgctgcgtg acacaaggcc agcctgcgcc tacgagccca tggactttgt   720
gatggccctc atctacgaca tggtactgct tgtggtcacc ctggggctgg ccctcttcac   780
tctgtgcggc aagttcaaga ggtggaagct gaacggggcc ttcctcctca tcacagcctt   840
cctctctgtg ctcatctggg tggcctggat gaccatgtac ctcttcggca atgtcaagct   900
gcagcagggg gatgcctgga acgaccccac cttggccatc acgctggcgg ccagcggctg   960
ggtcttcgtc atcttccacg ccatccctga gatccactgc accttctgc cagccctgca   1020
ggagaacacg cccaactact tcgacacgtc gcagcccagg atgcgggaga cggccttcga   1080
ggaggacgtg cagctgccgc gggcctatat ggagaacaag gccttctcca tggatgaaca   1140
caatgcagct ctccgaacag caggatttcc caacggcagc ttgggaaaaa gacccagtgg   1200
cagcttgggg aaaagaccca gcgctccgtt tagaagcaac gtgtatcagc caactgagat   1260
ggccgtcgtg ctcaacggtg ggaccatccc aactgctccg ccaagtcaca caggaagaca   1320
cctttggtga aagactttaa gttccagaga atcagaattt ctcttaccga tttgcctccc   1380
tggctgtgtc tttcttgagg gagaaatcgg taacagttgc cgaaccaggc cgcctcacag   1440
ccaggaaatt tggaaatcct agccaagggg atttcgtgta aatgtgaaca ctgacgaact   1500
gaaaagctaa caccgactgc ccgcccctcc cctgccacac acacagacac gtaataccag   1560
accaacctca atccccgcaa actaaagcaa agctaattgc aaatagtatt aggctcactg   1620
gaaaatgtgg ctgggaagac tgtttcatcc tctgggggta gaacagaacc aaattcacag   1680
ctggtgggcc agactggtgt tggttggagg tgggggggctc ccacttctta tcacctctcc   1740
ccagcaagtg ctggaacccc aggtagcctc ttggagatga ccgttgcgtt gaggacaaat   1800
ggggactttg ccaccggctt gcctggtggt ttgcacattt caggggggtc aggagagtta   1860
aggaggttgt gggtgggatt ccaaggtgag gcccaactga atcgtgggt gagctttata   1920
gccagtagag gtggagggac cctggcatgt gccaaagaag aggccctctg ggtgatgaag   1980
tgaccatcac atttggaaag tgatcaacca ctgttccttc tatgggctc ttgctctagt   2040
gtctatggtg agaacacagg ccccgcccct tcccttgtag agccatagaa atattctggc   2100
ttggggcagc agtcccttct tcccttgatc atctcgccct gttcctacac ttacgggtgt   2160
atctccaaat cctcttccca aatttaattc ccttattcat tttcaaaagc tccaatgggg   2220
gtctcaagct tgaaaagccc cctccgggaa gggcagggtt gggaaggcag gcaccacggg   2280
caaggttttt cccgcgatga tgtcacctag cagggcttca ggggtt             2326
```

<210> 6589
<211> 629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (130)...(253)
<223> similar to gil296429 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

        <400> 6589
cctctcaagc gtttcagggc ttttgtggat cgacccagca cccctgccct gcactcctag   60
gaaacacacg aagagcacac acaacggtat tctcgtcgtg tatttgtgat ctcctctagg   120
caggcttgac agccccaccc actccccaat gtcactgcta ccatccacca cggacatttg   180
agtcctgaac ttgtcatgct cagggaagtc ctgtgatgtg ccttgtcctt ctcccaggtg   240
ctcacccct aacacaggtg cagatgttca caaacagcca cattctgccg tagctgtctc   300
caatctgatg tcacccctgc cttggcctga agccctccag ctactagtgc tgcccaaaga   360
cccctcaagg ggtagtttgt tctcgcattc cgccccatct cgctttccag cacacagtag   420
atgttcaata aactgttgat cagattctga ggtctgtttg tgtttaatca gacaatatgc   480
aaagtattta caaccaattc tggatacccc cccacccccc gcaagtctgg gccttggaat   540
ttcggagccc caggcccggc ccagagccag gggtccccca ggcctctgca tagtcatctg   600
aaatctacaa aacactgtta aaaaaaaaa   629

        <210> 6590
        <211> 3270
        <212>. DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (211)...(1693)
        <223> similar to gi3043638 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

        <400> 6590
aagaacacct ttagatgacc acgccagctt ggcacgaggg gccccggctc tggcgtccct   60
ggctgccaag cctgaggccc gcagtcctac tcccgccgag accgccgct ccggtcctgc   120
cccgaactgc ccacggccgg cagcgcttcc aggccctgaa aaaaactctc ttcctgtgtc   180
tggccagagg tatagagaga gacaggttca actctaaggc ctgaaaagga acaaggccca   240
ccggaagcaa tggccactgt ccctggcctc cagccctgc caaccttgga gcaggacctg   300
gaacaggaag agatcctgat tgtgaaggtg gaggaggact tctgcttgga agaggagccc   360
tccgtggaga cggaggaccc cagccctgag actttccgcc agctcttccg gctcttctgc   420
taccaggagg tggctgggcc ccgggaggcc ctgagccgcc tctgggagct gtgctgccgc   480
tggctgcggc cggagctgcg caccaaggag cagatcctgg agctgctggt gctggagcag   540
ttcctgactg tgctgccggg ggagatccag gctcgggtac gcgagcagca gccggagagc   600
ggtgaggagg ccgtggtcct cgtggaaggg ctgcagcgga agcccaggaa acacaggcag   660
cggggctcag agctgctttc tgatgacgag gtgccctcg ggataggggg acagttctta   720
aaacaccagg cagaggctca gccagaggat ctgtccctgg aggaagaggc tcgattctcc   780
agccagcagc ccccagccca gctgagccac aggccacaga ggggcccgct gttgtggcca   840
gagagaggcc ctccagctcc ccggcatcag gagatggcgt cagcctcgcc cttcctttcg   900
gcctggtccc aggtgcccgt gaacttggag gacgtggctg tataccttc tggggaggag   960
ccaagatgca tggacccagc tcagcgggac gcgccgctgg agaatgaagg acctggggat   1020
ccagttggag gacggcggtt gattggcagg gaggatgccc cgttgagaat ggagtggtac   1080

                              5239

```
cgagtgctct cggcacgatg ccaggggcct ggccacccgc tcccaggtca gaggccagcc   1140
ccagtcaggg gcttggtcag gcctgatcag ccaagaggcg gcccccacc aggaagacgg   1200
gcttcccatg gggctgacaa gccgtacacc tgccccgaat gtggcaaagg cttcagcaag   1260
acgtcccact tgaccaagca ccagcgcaca cacacgggcg agcggcctta caagtgccta   1320
gtctgtggga agggctttag cgaccgctcc aacttcagca cgcaccagag ggtgcacaca   1380
ggcgagaagc cctacccgtg ccccgagtgt gggaagcgct tcagccagag ctccagcctg   1440
gtcatccacc gcaggacaca cagcggggag cggccctatg cctgcaccca gtgcgggaag   1500
cgcttcaaca acagctcgca cttcagcgcc caccgccgga cgcacacagg tgagaagccc   1560
tacacctgcc cggcctgtgg ccggggcttc cgccggggca ccgacctgca caagcaccag   1620
cggacccaca tggggcagg ctccttgccg acgctccagc cggtggctcc tggaggcccc   1680
ggtgcaaaag cctgatcacc aggcctgaaa ctcccttttcc aggactctca tccctgggca   1740
cagaattcag gaaactgcta gacagcctgg tccgaaagca ttgccagctg cccgtttcct   1800
cccatggccc agtatgaggc cagcagggga catttgggat gcccaggccg cagaggaagc   1860
tgggcactgg gtgcagaaca agggcaagga caggctctga gtgtccagtg gcagccagaa   1920
caggtgacac agagcagggg cttcagccac agagacacac tcaggaggcc agaagccgac   1980
actcaaggtg ttcgtggggc tggctcctga agggcctggg agggtccatc agctgcctcc   2040
agcatccagt ggctgctggc atacagcctc atccccacgt cccaacccct ctcctgtgtg   2100
tctgtgaccc tgtgcgctgt ctctgtgtgt acccccacc tgctccccc cccttttttt   2160
tttgagacgg ggccttgctg tgtcccccag gcgggaatac agggccatga tcatagctca   2220
ctgcagcctt gaatccctgg gctcaagggt tcctcctgcc tcatcctcct gagtagctgg   2280
ggttacaggt gtgtgccgcc atgcccagtc tcttttttgg tagggccacc actcactggg   2340
tttagggttc cccaatacac tgtgacctca tcttaactaa ttatatcatc aaaacccgtg   2400
tttccaaata aggtcacatt ctgaggtctg ggtgcacatg aatttgaggg acccctcgtc   2460
tgctgcaggg agccctgctg taccccagcc ttcccaggac gtggtctcca gcttcttcat   2520
cctgccagag tttccaaatg gagcccgggg ctctgcagca ttccagtccc ctttgcagat   2580
ccatagctgc tctgcagggc ggaagacacc tggggcggga aagcacccct gagttccatc   2640
ttcctgacat gtcgcctggg atgtgacggg cctgacatct ccccagggcc ggggcccagg   2700
gctgtctttg ctcctgggcc ccttagtgtc tggaatgtgg gcctttccac ggttgcccca   2760
ctttgtcttt ctaaggtaag aagccttcac cttccagctt ttgtctggcc tgtgctgcgt   2820
gggagccact ggtctgtgca catccacggt gggtgagtgg ccaagacaag cagtgtgata   2880
gagtccttgg tgggtttagt catctcggaa gtcgtagggc agctatggaa accactgggt   2940
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cccagcctgg gatgctccat tgcatttgtc acctagtcac tgtatatacg tgcacatttg   3060
accttttggc acagcccagg ttccaggtgc gtgacctgcc ctttttctca ttcccttaac   3120
tgacattatt tagtgtcaga ggccgagcac agtggctccc acctataatc ctagcacttt   3180
gggaggccaa cgcgggtgga ttgcttgagc ccaggagttc aagagcagcc tgggcaatat   3240
agaaagacat cttccctacc aaaaaaaaaa                                   3270
```

<210> 6591
<211> 4454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4270)...(2550)
<223> similar to gi3882255 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6591

```
tttttttttt ttagcacaaa gcattttagg tttatttaaa taaaaattat aatttataca      60
atacttttc tttaaacaaa caaagttttc ttaaaaaaat gttacaggag aatttttttc      120
atcggttctt aatacagtac aatccttttg ttgaacaaaa gtcacactgg caatgattat      180
ttacagatcc aaaatagact caggcttcag acataaaaaa tttaacattc gtctagttca      240
gtgattagtc acagaaatta aacatctgcc cagatgtaca caatttggta aaaactacag      300
cttctctcca cggggagccc agagcccgtg ccgatccgcg ctccgctccc gaggacttcc      360
agggaggggc ctgtgctggc agcagagcca gtcggtggcc ctcccccgac cccccgctcc      420
ccgaatgtgg ccctccctgg gggcttcggc cacacctggc acgtggtcag ttttcatctc      480
cctttctcca caaaagggac tcgaactaaa ccacccgacg ctggtaaagc cccatctgcc      540
ccagggaccc ctcccgctgt gtttggggac tgaatcccag cacctaggaa gaggcgctca      600
ttggccccga ggccccggac ccatccttgg gcactgccgg gccctgggga gagaggtgtg      660
gccattgtct gcgggcactg cctctgcagc cgccctgggg ggtgggtcag tgcccaccct      720
gtgttgcctc aggcgccaag gtggggttca ctgggatatg tcccctccc ctggtgcacc      780
aagagagcca gtcccctaca ggagccagac ccacggctca gagcgggttc tgtccccatt      840
cgggaaaggc cgccgtgtgg tcatcctgac gccaacgtcc gcgcagtcca gagccacggg      900
ggctccgctc caccgcctgg gataggacat gtgctgaatc tggtgatcgg cgcagctccc      960
cccaaagcac ccccggcacc agcgtgtgac tctgcggccc ctcgtgaagg gggtgaaacc     1020
agcccatgcc gccggatccc tcacccacac cagcaaatga ggatcggagc aaagataaaa     1080
attacatctg aaaaaggata caaaaataag aaaaccagct tgctcgctgt aaaaaataga     1140
atcttctgtt tcttcaaaaa acaacaatct caacgacacc caagggactc aggacaagct     1200
gagggagctg cgggatccgc cccagcagac acgcaggccc gcggggtggc cacctccttc     1260
caggaggccc aagccgcctt tccctccctt cagcccagcg caggcggccc cagcagacca     1320
ggcctgcggg cgctccctcc acaaatgcca ccttgttccc gggaagccca ggcttccctg     1380
gggcagggcg ggggctgggg gggtctgtgc ccggaccggc accggctagg cacgcggggg     1440
agggaacgct gtcgcatgtc ggctgcaggc agtgcaggcc caggcctctg ggctcggctc     1500
acggttgctc cctaaagcac aggggctgcc agagcctctc ggatggccca aaggcggctg     1560
cagcctgggc caccatggtc ccggaacact cctccccact tcctccccca accaacccag     1620
gcaaccgcag cctggggggcc atgtgccaga catgccacag tgctcggagc acctccaaca     1680
gccttcgcgg atgttctcct gggccttcca aagagcaaag tgtgagaaag atgtgctttt     1740
acctgcacca tcctgtgccc ttactggtcc ccagctacag acctcctggc cggcgtgtca     1800
ggccgagagc agcaggcagg cccttacaga cacggtgctg agcgccctgg aggccagcaa     1860
ggaaggtgcc accaaagaca ctgagggcag gtgaggggtg ggcccttctc accctctctg     1920
ttcccgtgga gcgagtgtgg agcgcaggca gggtcactgc gcccggcccc agcccggcac     1980
caagggcaaa tgccacagga gggtctcatg taagaggaag gagggccgcc aggcccgttt     2040
ctcggtggtt ggtgaaaggc ccccatgtcc ctccttgacg acatctttct gtccccagga     2100
ggaagggccc cgcactcttc agctatggct ttggtggtgg acgagcttct ggcctctgga     2160
gagcgggaca caaggttgcg agaacctctt ggggtggctg gagaggtttc tctgtccagg     2220
ctggaacgga gaagggcagg gccaggggtc ctgtgtgtct tctccacggg cccccgaggg     2280
cctctgcccc ctcccccagt ctgcgggtgg ccctcagagg cacctgacgt gccctgtggg     2340
agaggggcac ccccgtccct gtgagccctg gcccttctt ggtcgataaa acgcagaggt     2400
caacacaata gaaccacagg tccaggagaa ttattgcaaa agctcatgag gatgtccaat     2460
tgtttccact accaaatcgt aaaaaaaaaa aaagaaaaag aaaagaaaa agaaaattcc     2520
agcaacgtcc tggcaagtc aatactagct gtccccgcca gacgctgccg ctgaggtgat     2580
cttgatgtac tggctgagaa tggtctcgaa ggcctcatcc ctgtgcacca tggcaccaaa     2640
cacgagcggt ttctgggtgg atggcgtcga cacggcaatc cccatgcctg agcctgggag     2700
gacagacagg accttgtact tctggatgtc cgtgatgtcc actagcttga tgactttgtt     2760
cctctttgag gacccagatt tggagctttc gaagcacaag taattctgcc gtgacgtaga     2820
gcaccccgtt cctgatgtag tccgtgggca tcttccggtc cctgttgatg aggcagcagc     2880
gccagccatt ctcgcacacc gccagcggac gctcgttttc tgtcagattg aagatctcgt     2940
ggaaattgcc cttcttggtg ctgtggaagc gaccggcgtc ctcctcttta cccaggccgg     3000
ccggtgcgct gggtacgtag ctccgtgacg aggtcgtctg cagcctgcgt gagactgcgg     3060
cgctggagcg ctccttgagc tgcgggtcgg tggggagact cctccagatg atataggggcg     3120
tgtcgtactt ggcgcgcagc ctcgggcagc gtttaaagat gaaatcaatg aggaagaact     3180
tgataccagc atagagtccc acggcaagcc ccaccaggcg gtaggggaag aagcaggagg     3240
ccaggaaggc agcccagagc gccacataca gcttctgtgt gatctccggc tggacccaca     3300
tgaacaagtt cttgatcttc tccaggatgt cagccatctt cccgaaaagg ttctgggctt     3360
tctgggcgac gtccagcacc agctggaact tctcagacac agtcaggtct tcctttggag     3420
```

5241

```
gttccacggg ctcagacact tcgggcacga tgctccactg tatccgccac ccccctggcga   3480
tgaggtaatt gagggataac ctcagaattg ctagaaataa gaacaatggg atggcccagc   3540
catgccacac ggcattcatg tacacggtga aggcaatggc agacgtgtag acggagtacc   3600
agtcggataa ggcagagagg ttcttcacaa agttagtgac cggcttggca ccgcgcttga   3660
gccgtctcat attttcagtt aacctgcggg cgctcagggg ttcctctgtc tccacagtgt   3720
tctcctcggg ctggaaccgg aagtcctcca cgtactcccc gaaccgctcg tagaaccact   3780
tctgcaggcg cgaggacagc ccctggctcc ggcgctctgc tccattgctg gcctgggcct   3840
gcccttttgg gggctgctga gccatctgct cctcggttct ggccttcagc acctcctgca   3900
ccttctgctc cagctccatc cgccgctgcc gctcgcggtc cagctcctgc cgcagcatct   3960
ccgcgttggt ttcttctcgc agcttccgga gctcctcctg taagaaatgt ttttccaata   4020
aggcaatttc caggtgacct ttgatctcat tcagtcgatc aaactctgtc cggttaaagt   4080
cctggactcc tgtggccatg atgagggtcc ctggaccagc agggtccctc agctcctcgc   4140
tgtcccgggg cgaggtccgc ggtaccttca gggggatttc gtcgctgcat tcggtgtccg   4200
aggcatttgg agactccgct agatcgagga agtcatctct cttgtgacct ctgaacctga   4260
ttttgtccaa cctccttagc atgttcagca ctgaggtcct ctgcttcacc ctaacatgac   4320
gctcgggttc cctccgtctg tctcagatac atccagaaac actctttcac tgtggctcct   4380
tcaggtcctg gcccagaacc agaatgtgct tcgaggaccc accaaccata gcctccaagc   4440
cacccacac cagc                                                       4454
```

<210> 6592
<211> 1839
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (429)...(1840)
<223> similar to gi3882311 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6592
```
tttcgtcgcg ctccgagcgg ctgtcggcgt gcgctatcgc cccgccctgg ttagtgtcta     60
gccggccggc gaggcctgcg cagttgcagc ggccggggaa gatggtggag gacggcgcgg    120
aggagctgga ggatctggtg cacttctccg tgtctgagtt gcctagtcgc ggctacggcg    180
tcatggagga gatccggcgg cagggcaagc tgtgcgacgt gaccctcaag attggggacc    240
acaaattcag tgcccaccgg attgtcttag cagcctcgat ccgtatttc catgctatgt     300
ttacaaatga catgatggag tgcaagcagg atgagattgt aatgcaagga atggacccaa    360
gtgccctgga ggctctgatc aactttgcct acaacggcaa ccttgccatt gaccagcaaa    420
atgtccagtc attgctgatg ggggcgagct tcctgcagct gcagagcatc aaagacgcct    480
gctgcacatt ccttcgagaa cggcttcacc caaaaaactg cctgggtgtg cgccagtttg    540
ctgagacaat gatgtgtgct gtgctgtacg acgctgccaa cagcttcatc caccagcact    600
ttgtggaggt gtccatgtca gaagagttcc tggccctgcc cttggaagac gtgcttgagc    660
tggtgtctcg ggatgagctg aatgtcaaat ctgaggagca ggtctttgaa gctgcattgg    720
cctgggtcag atacgaccgg gagcaaaggg gtacattcct gctgtaacct ccagtccaat    780
atccgcctgc tcttctgtcg gccccagttc ctttcagaca gagtacagca ggatgacctg    840
gtgcgttgct gccacaaatg cagggacctg gtagacgaag caaaggacta cctcctcatg    900
ccagagcgcc ggccccacct gccagctttc agaacccggc cacgctgctg cacatccatc    960
gctggactta tctacgctgt aggggggcctc aactcagcag gtgattccct gaatgtggtg   1020
gaagtgttcg accccattgc caattgctgg gagagatgcc gtcccatgac aacagcccgc   1080
agccgcgttg gcgtggctgt ggtgaacggg cttctctatg ccatcggagg atatgacggc   1140
```
```
                                   5242
```

```
cagctacggc tgagcactgt gcaggcctac aacacggaga cagacacatg gaccagagtg    1200
gggagcatga atagcaagag aagtgccatg gggacagtcg tgctggatgg gcagatctac    1260
gtctgtgggg gctacgatgg caactcttcc ctcagctccg tggagaccta ctcacctgag    1320
acggacaaat ggacagtggt gacctcgatg agctcgaatc gcagtgctgc tcggggttac    1380
agtctttgag ggcaggatat atgtgtcagg cggccatgat ggtttgcaga tcttcagcag    1440
tgtggaacac tacaaccacc acacagccac ctggcaccct gcagctggca tgctcaacaa    1500
gcgctgccgg cacggagccg cctccctggg gagcaagatg tttgtctgcg ggggctacga    1560
tggctctggc ttcctcagca ttgccgagat gtacagctct gtgggcagac cagtggtgcc    1620
tgattgtccc catggcacac gcgcagggag ccgggtctcc ctgggtgggc cagctgtggg    1680
gcgcctctac gctgtttggg gggttacgac gggacagtca aacctaaagc tcagtgggag    1740
atgtattgac cccagagaca gactgctgga cattcatggg cccccatggc gtgccatgag    1800
ggaggggtcg gtgtgggctg catccctctc ctcaccatc                           1839
```


<210> 6593
<211> 2542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(1600)
<223> similar to gi3806094 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6593
```
acgcggggcc gggcggctga gcgttcgcgg ggccgaggcc atggctttct gggcgggggg     60
ttcgcccagc gtcgtggact atttccctag cgaggacttc taccgctgcg gctactgcaa    120
gaacgagtcg ggcagccgct ccaatggcat gtgggcacat tccatgacag tacaggatta    180
tcaggatctc atagaccgag gatggcgaag aagtggaaaa tatgtgtaca aacctgtcat    240
gaatcaaaca tgttgtcctc agtacacaat aaggtgccga cctttacaat ttcagccttc    300
aaaatctcac aagaaggttt tgaaaaaaat gttgaaattt ctggctaaag gggaggttcc    360
caaaggaagt tgtgaaggat gagcccatgg attccacaat ggatgatgct gttgcgggtg    420
actttgcatt gataaataaa ctggatatac agtgtgatct taaaacactc agtgatgaca    480
tcaaagagag tttagagagt gaaggaaaaa attcaaagaa agaagaacct caggaattac    540
ttcagtcaca agatttcgta ggagagaagt tgggctctgg tgaaccgtca cattcagtta    600
aagttcacac agttcctaag ccaggcaaag gggctgattt gagtaagcct ccatgtcgaa    660
aagcaaagga aatccggaaa gaaaggaaaa ggttaaaact aatgcagcag aacccagctg    720
gagaacttga gggtttccag gctcaaggtc acccaccatc tttgtttcca ccaaaggcta    780
aatccaacca gccaaaatca ctcgaagatt taatttttga gtctttacca gagaatgcat    840
cacacaagtt agaggtgagg gtggtgagat catctccacc aagttcgcag ttcaaagcca    900
cacttctgga gtcttaccag gtctataaac gttaccagat ggttattcac aagaacccac    960
ctgatacgcc aaccgaaagc cagttcacaa gattcctttg cagttcaccc ttggaggcag   1020
agactccccc taatgggcca gattgtggct atggctcctt tcaccagcag tactggcttg   1080
acggaaagat cattgctgtg ggggtgattg acatcctccc aaactgtgta tcatctgtgt   1140
atttgtacta cgatcctgat tattcgtttt tgtctttggg cgtctactct gcactacgag   1200
aaattgcttt tactaggcag cttcatgaga aaacttctca actcagctat tattatatgg   1260
gtttctacat tcattcatgt cccaagatga aatataaggg tcagtataga ccttctgatt   1320
tgctgtgccc tgagacatat gtttgggtac ccattgagca atgcctgcct tcacttgaaa   1380
actccaagta ctgccgtttc aaccaggacc ccgaagcagt ggatgaggat cgcagtacgg   1440
aacctgaccg attgcaggtg tttcacaaga gagccatcat gccttacggt gtttataaga   1500
```

                                5243
```

```
aacagcagaa agacccaagt gaggaggctg ctgttctgca gtacgccagc ctggtggggc   1560
agaagtgctc cgagcggatg ctgctgttca gaaactgacc tgttcgcctc tgccgggaag   1620
ttcctgtgtt gtgctgatga tttgtgccag gatacatatt cagtacctgt ggggaaataa   1680
ctgtcaccac ccacaaatta gacatttta ttttgactat ctatggcttt taaaaaatat    1740
tttgtggcaa tgtatctgtg agaatctcat agttaatata aagatttaa aactgcatta    1800
tgacctagcc cccataattg ggatttatca ttttggagga ttctttctag agcaagatat   1860
gctcaaattc tcctgtttgt attttgtaaa atgaagaagt gaatctaagt aacttaatca   1920
cagttgtgca ttttttttgg ttctgttaga gaaattaaaa cagactgttt cctcaggccc   1980
attttaaact gaacttatgc taggaaacct taagtatggg gaaggtagaa agttcatttc   2040
atcacttaga aaatatgtct tctcaagaac aaaactgtgc tgttacaact cagtgttcaa   2100
tgtgaaattg ctgccaaatg ttatgtagtt taatagagaa cttgaaaaaa taaaacatta   2160
aaatggagct tgtgttagca tcaggtatcc atttgttcag gacagtcctg ttcatgtctg   2220
ttgtcttggc ataatttttt cccctagaat atagtactcc cttttactct aaaaaatatc   2280
ccagtttgga caataaaata cataattact ctagttatat tatttgcttt acttctaaaa   2340
atgtaagaaa ttgaattttt ttaaagaaaa atgttggttc ctgccttgat ctaagtctca   2400
tccaaaggaa ataaatagtc actagttttt tatcttacaa ctcaggacat ttgtctttgg   2460
ttattaatgg aaattaatat gtgattactt tcatagttat gccacaaatc acattgaaga   2520
aggaatcatt ccgacctctg tt                                            2542
```

<210> 6594
<211> 3137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3077)...(753)
<223> similar to gi3452409 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6594
```
ttttttttttt ttgccacaca cagcactggg tggactttta ttttaaagtc aaaggcacag   60
cctggctggg ctgaggcagt gaccatggat gcccagccca gaccccaag gccccacccc      120
cagccaggag tagctgtgcc aaagaggaag gggtgggtga aagatggcc tcctctttta      180
ggagccacct atctccttcc ttagccccaa caggggagaa gcagatgaca taaagtgagg     240
cagaaatgct tcagagggtc ccccagggcc tctccttcag taccccaac acgggtcttt      300
ggtggacgta attgcacaga cagtccataa agtgacagtt gaggggtgcc cctcccagga     360
acggggcctc aggggagaac agggtagggg gtcccagttt aggagttagc actcctaact     420
cagtgcttag aagtggggga ggggctcttt cctgttggag cagtcccct ggagggggcct     480
tctgcccaga agaggcagtg tcctgggaga gggcccccca aaccccactc cccagcaggc     540
ccccccttcc ctgcaactct atctggtaag acataaaaaa ttctctgctt ataaaaatac     600
ttctgctctg tctgggagtg gggtggggta ggagaggaaa ggacagtccc ttggggattc     660
tggtcagccg caggcagagg cctccgggag tgagccgggc tcccaggtca cagcccctat     720
gagggaaggg ggtcacagtg gtggggatta ggagggggc aggggccgt tggctcggcg       780
ggggcccct ttggaggcga cggggctcg gcccgggttg gctggtgcag gggagccccg       840
gcgggaggcg gtggcgctcc gcagcttctg cttccgccgc ttggccaggg gtgcattctc     900
cacgctcttc aggaagaagc cctcccgctt gccccggttg aatgccatga aggtggcgtt     960
gagacccgag cgcactgcgg gcccagagga ctcgagcacg tcgggcgtcc ggagcggggg    1020
cgaggagcgc gcgctgccgt cctgcagcca cgagctgccc cgcagtccct cgagtttcag    1080
ccgcttggcg gggtccacgg tcaggagccc tcggaccagc tccttggctt cctcggatac    1140
```

                                5244

```
accctgccag gcctccccgt caagggagaa gcgcccctcg cggattttgc acatgatctc    1200
ggccgcctgg ctctgcccgc cctggccaga ggcccctgg aagcggacct gccccgacag    1260
catcatggta cagaatgacg cgcaggctcc agaggtcgca ggactcgtcg tatcgctgct    1320
gcgccagcag ctcgggggca gcgtactgca gcgtgaagca gggcgtctgc atgggcaccc    1380
cgggactctg cggccggaac cgcggcgaga cccgaagtcg atgattttca ccggggcccc    1440
ggctgtgtcg tcggcgtaca cgatgttctc cggcttgagg tcgcggtgca ccacgcccgc    1500
ctcctcgtgc atgaagctca cggccgacac gaggctgcgc aggatctggc ttgcttccga    1560
ctcgctgaag tgccgcttct tggcgaatgt gctccagcag ctccccgccc cgcagcagct    1620
ccaggaccag gtacgtgtgc agctggtcgt gatgcacctc gtgcagattc accacgttgg    1680
ggtgtgactg gcacaggcgc agggcagcca cttcgcgctg cgtgttcgcc tccagcctgc    1740
gactgaggat cttgactgcg aactcctggc cgctctggcg ctggcggcag cggcgacaca    1800
cagaaaagct gccctggccc agcgcaggct cccgcaggtc cagctcgtac tgctggaaga    1860
agggcgagtc ctgcatcata gcgctcctgg ccaccgctgc ccgacctggc cggtctccag    1920
caccaggcgc ttccagccca tcggtcatca ccgcgttgtt gtggtcaaag agaatggagg    1980
gtgccacaaa ggagtatccc tgaaagattc gggggtcccc aggtgggggt ctgtccaggg    2040
ggtgagtaga caggctccag ccgagtgaat tcctccgcaa agtttgccca catccagctc    2100
tgagcggatt tggggccgga atggggctgg aatcttcctg gcagccagag ccacccaatc    2160
gaggccctgg aagaagggat ggttccggac ttcttgtgcc ccctggggcc ccgcgcccaa    2220
tcgcttctta ggatccttac aaagcagccg ctgcagcagg tcctgcgcca cgggcccgat    2280
ccgagggggg aagggagggg agcacttcag gatccgtcga gacacctcag cctgcgtgtt    2340
cctctcgccc tccagggtga agggcgaggc ccccgtcagc agctcgaaga gcaagatgcc    2400
caggctccac cagtccacag ccttgccatg ccccgtcttg ctacggatga tttcggggggc    2460
catgtactcg atggtgccac agaaggagaa ggtccgctct ttctcctccg tcaggaactc    2520
cttgctcagc ccgaagtccg tgaggacaat gtggccctcg gagtccagca gcacattctc    2580
cagtttcagg tctcggtaaa tgatgccgag cttgtgcagg tgttccaggg ccagcacgat    2640
ctctcctcca tacacgcgcc cctcagcctc cttgaagtac tggcgctggt agaggtggcc    2700
caccatctcc ccgccgctca catagtccag gatgaggtgc agcttggcat ccgtctggaa    2760
agcgtagtgc agcgtgacca ggaagggcgc ctggcgcacc agctccagca ccgagcgctc    2820
ggtgcgcgtg tgctcctgcg tcttggcgcg ctgcaccagc gccgccttgc gcagcacctt    2880
catggcgtac agcttccccg cgtcgtgccc gcccgccttc cgcaccagga acaccttgcc    2940
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gtgcccggtc aggttggctt ctgtgatccg cagctccacg gcgcagctct catcgtcgtc    3060
ctcgtccccc atggcgggcg ggtcgctggg gcccgcgcgg ctcgggctcc gggcggcgcc    3120
ggttacatgg cggctcc                                                   3137
```

<210> 6595
<211> 2275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2221)...(614)
<223> similar to gi3378056 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6595
```
tttttttttt ttacacatca acagttgttc agaaagggac cagcagatag ctgccccggc     60
tcctctaagg aagagcaggc agcttccccc cgaatctaca tgtgcgtgtg ctcggggaga    120
ggaaggctgg cggtcaggaa ggcccatctc ccagcctgat cccaggcagc agggctgcag    180
```

```
gagctgggca ggaaggctct gggccggcca tagccacctg ccagcaaggg caggcttctc    240
ttctcatggc tggggcagct cggcacagct gacctctgct ggccaagtga agcactgcat    300
gcagccacag agccaggcac agctgtcttc cgaagtttcc cgactcctga tgttttgggg    360
attcaaatag tccttttcat atgctggagg cacaaactgg ggcagctaaa atttttattc    420
tgttgtcaag gggcaagatg ccagcttgga agtgccaagg agctaaaggg cccagcactg    480
ccggccccag aactgtctgt tcaggctgtg cagtaagcac cagagcctcg cctgtccacg    540
aagggtgtaa gcctgtgctc cacaatgtgc tcagctccag agaggcccaa caacctcagg    600
agggcttggc tgtgggtctg aatttctttc ctttgtgctt gaagctgcgc agtgggttct    660
gggactttgc tctcttggcc ttcctacaag aggaagacag cttcttccgc ttcttgtgag    720
ggcgcaccag gccacggaga gcaggaggaa ccaggtagtc aggaacatgg cccaggtggg    780
gcttcaccac tgcggggtgc aaaggtaggt catgccgcag cagctggagg tcccctaggg    840
ttgtcttcaa agtatgtctt aagcttctca gaatgcagaa gctcttcctt gatctccttc    900
aatcttgcct cccgaatggc ctgcttagtc actgagcgca tggcatccct gcagcgatag    960
cggaagccct cgatctcctc catccggaac tggtagggga gcagaatggg gccctgttc    1020
tctccactga gaagctcctc aatcttgcct aagtggaact gctccgtggg aagcacaaag    1080
gttaagacta tgcctgggtt gttagcgcgt gctgtcctgc cagctcgatg gatgtaggcc    1140
tcaggggttg ggggaagatc aaagttgagc acagcagaca catggtggaa gtctatgccc    1200
cgggccacac ctgcttccgg atcagaggcc ttgtcccctt tgggccctcg gccccgacgc    1260
ttgcccttga ctggggcccc caggacttca gcatcagttg ctatgacaca gtcgtagaag    1320
ccttggttga actgtgagat gatgtggcac ctggagcgca gtggaagctc tccattgagc    1380
acacaggtgg ggatgctgaa ctgttccaag aacaggcgta gccggtaact ccgttctaga    1440
gtgttgacaa agagcagaga cttgccccga atcaatgaca gcttgagcag ggcatacagc    1500
aggaggaatt tgtcttcctc agtctcacag accacctgaa actgctgtaa ctggtctggc    1560
ccaggcagct gggactcctg taacttaagg gtaaccgggt tatgtaatat cagctccttg    1620
agtgcttgta cgtcctcgtt aaaagtagct gacatgagaa aagcctggta aatccggggc    1680
aagtgacaga ggagactctt gagctcttct tcaaagccaa aggaaaaaag aaggtcagct    1740
tcgtccacca ccaaaagctc cagggagtca cgaagtttca ggctgtcttg ctgcaagtgg    1800
cttaatatgc gagatggggt ccctactacc acatctggct tctccatcag cacagctctc    1860
tgagagactg agtcttcagc agctgagaca ttggccactc ggacatcccg agcacagtag    1920
gtagccagct gctgaatcat ggactgtgct tgccgtgcca gctccttggt aggaacaaga    1980
acaaggcctc tcactgcctg ttctaccacc ggacctgtcg ccttcctatg gagcaacagc    2040
tgcagcatcg gaatagcata agcggccgtc ttcccggagc ccgtgcgggc ccgagccagg    2100
aggtccttcc cttctagggc cagtgggatg gccttctcct ggatcagcgt aggtcgcgac    2160
cagcccagat cggtgacagc ctgaaggagc cggggatcga ggcccatgtg ttcgaagccc    2220
agtgcttcag agtcctccat ggcgctgctc agtagcgcag cacgcacgcg ctgca         2275
```

<210> 6596
<211> 2726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (67)...(1468)
<223> similar to gi2121246 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6596
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accgcgacag ctaggcgcgt gagaccggcc gcccgcaggg ctgctctggc cgggacccgc     60
tggccgggag acgcgaacct gccggaccac cgcgcgggga cgacggcggc catgagctcg    120
```

```
cggaagctga gcgggccgaa aggcaggagg ctcagcatac acgtcgtgac ttggaacgtg    180
gcttcggcag cgcccctct agatctcagt gacctgcttc agctgaacaa ccggaacctc    240
aatcttgaca tatatgttat tggtttgcag gaattgaact ctgggatcat aagcctcctt    300
tccgatgctg cctttaatga ctcgtggagc agtttcctca tggatgtgct ttcccctctg    360
agcttcatca aggtctccca tgtccgtatg caggggatcc tcttactggt ctttgccaag    420
tatcagcatt tgccctatat ccagattctg tctactaaat ccaccccac tggcctgttt    480
gggtactggg ggaacaaagg tggagtcaac atctgcctga agctttatgg ctactatgtc    540
agcatcatca actgccacct gcctccccac atttccaaca attaccagcg gctggagcac    600
tttgaccgga tcctggagat gcagaattgt gagggcgag acatcccaaa catcctggac    660
cacgagtgag cctggcctca ttatctggtt tggagacatg aactttcgga tcgaggactt    720
tgggttgcac tttgttcggg aatccattaa aaatcggtgc tacggtggcc tgtgggagaa    780
ggaccagctc agcattgcca agaaacatga cccgctgctc cgggagttcc aggagggccg    840
cctactcttc ccgcccacct acaagtttga taggaactcc aacgactatg acaccagtga    900
gaaaaaacgc aagcctgcat ggaccgatcg catcctgtgg aggctgaagc ggcagccctg    960
tgctggcccc gacactccca taccgccggc gtcacacttc tccttgtctc tgaggggcta   1020
cagcagccac atgacgtacg gcatcagcga ccacaagcct gtctccggca cgttcgactt   1080
ggagctgaag ccattggtgt ctgctccgct gatcgtcctg atgcccgagg acctgtggac   1140
cgtggaaaat gacatgatgg tcagctactc ttcaacctcg gacttcccca gcagcccgtg   1200
ggactggatt ggactgtaca aggtggggct gcgggacgtt aatgactacg tgtcctatgc   1260
ctgggtcggg gacagcaagg tctcctgcag cgacaacctg aaccaggttt acatcgacat   1320
cagcaatatc cctaccactg aagatgagtt tctcctctgt tactacagca acagtctgcg   1380
ttctgtggtg gggataagca gacccttcca gatcccgcct ggctccttga gggaggaccc   1440
actgggtgaa gcacagccac agatctgagc caggatggga gtgaatccca ggcggaggcc   1500
agagctggca gccagctctg cctttccact gccgggagtg ctgggggccc agcctggccc   1560
cctgaagaga cagccaagtg tcgtccacat actcctccca gagtgagctc taaccaggct   1620
catttgctct ctccactact catctctgga attagccgct taaatacagg tttttgttgc   1680
tgagatgtga gtgaaaccag ctagtgtgtc aacagtgaag acctggggac agttctgcgt   1740
ctcatttctg gattcctacc ccctcttcta gtcttgccca agtagtcctg ccaggcacat   1800
gccccatttg gcacaggcct gcattcttgt cgtgccgtcc tgggcctcag gctgtctggg   1860
aggggagatg ctcacatttg tacaggctac atagactggt gcaagcagtg ctggattcca   1920
ggagtcttgg catctcatag cttgtccccg tgaggagtga gcagagggtc tgggatttct   1980
gctttcagca aaagcagtct gactcagtgg gcagaatgga ggggcccctc tagccaggct   2040
cttacgccat ggttatgagc aggttgatga gggtccttcg gccagcacaa ccttcctccc   2100
tactcacggc atggagtctg actgcatgga agttccagat cctgacagag agaactggga   2160
aggatccagg ttcgcttccg ttggtagctt gagtcccatg cctccaccct gccatctgag   2220
gaaggggtga caagtggtca aggagctgtg gccacagact tttccagggt ggtccttggc   2280
aggtgaggtg cgtctgtgcc acccttgtca ggagccattg acgacgggcc ccccctggac   2340
cccccgggac ctcaagagtg ggggcaggca gaagggagaa ccagctcaag acattttgga   2400
ggatctggcc ctggggttct tcaaagaaca ccctctaggg gctttgggga catggcctgt   2460
ccccacatcc agcacttgcc tccgccatgg tcactcggca gccctttttcc caggagaaga   2520
cacctctggg agcctgctca gtgcttgtcc tgccatcctg tgtcctggga ctgagggtta   2580
ctccagttgc tttgtgttgc atactctccc ccgcaagcct gtgtatgaag aattgtcccc   2640
tggcttccag caggccatgg ctggctgttt tgtgactgtt acattgtgca ggggtaatta   2700
ttagcgtggc ttttacaaaa aaaaaa                                       2726
```

<210> 6597
<211> 2642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2643)

5247

```
<400> 6597
gattttcaca atgctttcc atacaatgtc tggaatccat agataacata accggtttgg     60
tcaggggtcg atctttaacc aggcccaggg ttggcaccct ggctgtctgc ctgtggattt    120
catttctgcc ttttagtttt tacttgtttc tttggaggca gaaattgggc ataaaacaat    180
atgagaggtg gtctcctccc ttaacagcac aaacgcttaa ttaacatttc tttttctttt    240
gagacaggtt ctgtcgccca ggctggagtg cagtggtgca gtcatagctc agtgcagcct    300
ggaccacctg ggctcaagca gtcctgacac ctcagcctct caaaatttgg gattacaggc    360
gcgcgccacc gtgcgggtca ggaggcttcc ctgagggccc cggaggtgga gctgggcttt    420
tccttccgaa gcgcccctgg gaatctctct ctttacggcc ttggaacctg ggaaactaca    480
ttacccagaa agctttgcgt caaatgacag cacggcagag ccagtgagag ttcacattga    540
aggcgtttcc gtgtgcgcaa gtaaggtaga ggcgggactc ccggcgccct ttagtagcga    600
ccatttccat tggcgttagg gagtccttgg agcgctgtgt tgggaccgtg gtggtgactg    660
gatccaggag gtcgggagtc gttcttctct ttgcacagac gtgactctgc agctctttaa    720
cggcgcccgc tgctctcaac ccagcttacc ccacgtggtc ccatggcggc ggccgcgcta    780
aggttccccg ttcagggcac agtgactttt gaagacgtgg ctgtgaaatt tacccaggga    840
ggaatggaat ctccttagtt gaggctcaga gatgcctgtt accgtgatgt tgacgctggg    900
agaacctggg cactttatgt cctccctggg gttnttggtg tggagtggaa gatgaggcgg    960
caccttctaa gcagagtatt tatatacaaa gagagactca ggtcaggact cctatggcag   1020
gtgtgtctcc caagaaggcc caccctgtg agatgtgtgg cccgatcttg ggagacattt    1080
tgcatgtggc agatcatcag ggaacacatc acaagcagaa actgcacagg tgtgaggcct   1140
gggggaataa attgtatgac agtggaaact ttcatcagca ccagaatgag cacattggag   1200
agaacccta cagagggagt gttgaggagg cgttgtttgt gaagaggtgt aagttgcatg   1260
tgtcagggag tcatctgtct tcagtgagag tggaaggact tttgcccagg tcaggattac   1320
tccagcagga ggccagtcac actggggaga agtcaaacag caaaactgag tgtgtgtctc   1380
cctttcagtg tgggggagct cactatagcc atggagattc catgaaacat tttagcacca   1440
aacatatact cagtcagcac cagagacttc tccctcgaga agaatgttat gtgtgctgtg   1500
aatgtgggaa atcctttagc aaatatgtta gcttcagtaa tcatcagaga gttcacagtg   1560
gaaaaagacc ttatgaatgt ggagaatgtg agaaatcttt tagtcaaaag agcagcctca   1620
ttcaacatca gcaatttcac actggaggaa aaccttatgg gtgtgaagaa tgtgggaaat   1680
attttagctt agaaggatat cttaggcgcc atcaaaaagt tcacgctgga aaagggcctt   1740
atgagtgtgg agaatgtggg aaatctttta gttcaaacgt gaaccttaag agtcatcagc   1800
gcattcacac tggagagaga ccttacaagt gtggagaatg tgagaaatct tttagtcgga   1860
agcccagcct tagttaccat cagcgcattc acactgaagt aagaccttac aagtgtggag   1920
aatgtgggaa atcttatatt tcaaaggggc accttaggat ccatcagcgc atgcacactg   1980
gagaaagacc ttacaagtgt ggagactgtg ggaaatcttt taatgaaaaa ggacaccta   2040
ggaatcatca gcgagttcac actacagaaa gacctttaa gtgtgggga tgtgggaaat    2100
gttttagtca caagggtaac ctcattctac accagcatgg ccatactgga gaaagacctt   2160
atgtatgcag ggaatgtgga aaattattta agaagaagtc tcacctcctt gtacaccaga   2220
gaattcacaa tggagaaaag ccatatgctt gtgaagcttg tcagaaattt tttagaaaca   2280
agtaccaact cattgcacat cagagagttc acactggaga aaggccttat gaatgcaatg   2340
attgtggaaa atcatttacc cacagctcta cattctgtgt tcataagcga attcacactg   2400
gagaaaagcc ttatgagtgc agtgaatgtg gaaaatcttt cgctgaaagc tccagtttca   2460
caaaacacca gagagttcac actggagaaa ggccatatga atgcagtgat tgtgggaagt   2520
catttaccca cagctgtgca ttcattgttc ataagagagt tcacactggt cagaagcctt   2580
atgagtgcag tgaatgtggg aaatcttttg ctgcaagctc ctatctcact agtcacaggg   2640
tg                                                                   2642
```

<210> 6598
<211> 2306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (620)...(1196)
<223> similar to gi609017 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6598
gaacttgcta atctcttttg tcacattcgg attgctcctg ctgccccaca cacactaacc   60
caaccatctt ggggtggact ccctgccagc ccaactgttg tattttcagt tcttccagtg   120
tgaatcagtt aatattctcg ggaacgaggg agaggttgat cctatgagga aatcaaccac   180
agtgaaaagg cttgggccgc ttttgttttc acctgctttt gttgaacaaa tttgatttcc   240
ggagtcagtc attttactgt caagacattt cttcggcatt ctgcaacagt ttccaacatg   300
gctagatcca tcagaaactg aagccgtgga gaacgctctc ggggcctttg ccacttcttg   360
gagtagaagc cgacagagag ctgtttggaa acttctcctt cacacaccag ttgaagacta   420
ggctttggag gttttcaaag cagacggtgc ttggatgggc agggagaagt aacattctgc   480
aaatcgccgt cagaggtcct gaggacacag acctacctgg cttgcattcc ccttgctgaa   540
tggcgtgtgc tgcagctgcc cactgagggc tcttttccct gggattctgg acttcagagt   600
aggacagcag gctgggaaga tgctgagttc catcaagtgc gtgttggtgg cgactctgc   660
tgtggggaaa acctctctgt tgggtgcgct tcacctccga gaccttcccg gaggcctaca   720
agcccacagt gtacgagaac acaggggtgg acgtcttcat ggatggcatc cagatcagcc   780
tgggcctctg ggacacagcc ggcaatgacg ccttcagaag catccggccc ctgtcctacc   840
agcaggcaga cgtggtgctg atgtgctact ctgtggccaa ccataactca ttcctgaact   900
tgaagaacaa gtggattggt gaaattagga gcaacttgcc ctgtacccct gtgctggtgg   960
tggccaccca gactgaccag cgggagatgg ggccccacag ggcctcctgc gtcaatgcca   1020
tggaagggaa gaaactggcc caggatgtca gagccaaggg ctacctggag tgctcagccc   1080
ttagcaatcg gggagtacag caggtgtttg agtgcgccgt ccgaactgcc gtcaaccagg   1140
ccaggagacg aaacagaagg aggctcttct ccatcaatga gtgcaagatc ttctaaaccc   1200
caagagactt cacacaacac ttatgtatgc accccaaaga ctaatgggga gagggagggc   1260
cgggaagcca ggaaagcttg gtgttttctc tgggtacacc ccaagcagcg tctcctttg   1320
gatacagtta ttgatgaggc ttggccactg gatgttttca ctaactacac tctacaagtg   1380
aactccttgc ccaggccagt tagaaaatcc cttggggaac tgtgatgaat attccatctt   1440
tgattaaaaa agtgaaatag tctccataat tttggacgat gaagtgagtt tttcaaagaa   1500
ttccatattt aaagacacat tttatttaac taataacaaa atgtattgct tttgtatata   1560
tttagttttc acacttggaa aatcttttcc tacatcctcg aaaccataaa ctcctctgtg   1620
agtgaaatgc ttgtacgaag gctctgccat atgtttgtag tgttattatt ttcacctcaa   1680
gtagaaaggt ctgttgaaac cacttgggct gctggattta aatgggtaat caaatttaaa   1740
aatgaccata aatgaatctt tgcaatttgt tttctactta cctgttattc acagttggat   1800
ataaaataca gttccataag atatcctaat actgcctaat gatttaaag ttatcactat   1860
atttttctga aatgataaaa catcattcat ttatttacta tattgtcttt cactcaactc   1920
cagttatgca ctaaatattc tcctctcatt caccaagatt gattgaaaca ccatctttca   1980
ggtagagaat cagactgctc caagcaatgg caacagaact tggaacagaa gcgagagagt   2040
gtcactttca cttctggtag ggtggttccc aggcgactgc aggtcttgtg aaagacaggg   2100
gtctcaaagt tctgttaatt tcacaaattt gttataaatt tgtctaaact gagctgttgt   2160
ggcaacataa tttatgaatc gtaaggtcta gttaggctta ttggggggat atctacatat   2220

5249

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atatgtgtat gtaagggaaa aaaggtagaa tttacagcct tcaaaaaaga aaaatcaaat    2280
tccaagcaca ggaataagaa agctat                                         2306




   <210> 6599
   <211> 2327
   <212> DNA
   <213> Homo sapiens

   <220>
   <221> misc_feature
   <222> (1662)...(474)
   <223> similar to gi4887561 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




   <400> 6599
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ctgaatccca gaacttccag atactgtcca cactccctcc cctgggcaga ggagaggagg     120
cacctcaagg gaacaagatg ggggtggggg tgtcctgccg gggagcctcc gactcccca      180
agccgtctac tgctggggggg tcccagggag ggagggtggg ggttgtgttt cctccccaaa    240
gggtgctccc tgctgacgcc ccgtcctgaa gccctcccct cctccatcaa ggctggggat    300
gatgaggaga tggggcaggg gcccggggga ccaaggccca ttactgagcg cttgaactcc    360
caccccgggg aacacgggga caattaaagc tggcatagga agaggggggcc aggcggctga    420
cgcaaggccg ggcagcccca aaggcactat tgtaagggaa gggaggctca aaacgaaggg    480
cccattgggc gcaggggggcc caagcccgtg ggaccccccg aggagggcca gctgagccca    540
gctgctccgg gctgggccag ggcgcgcagc agcccattct cctgctccag cgcagcgttc    600
cgctccgcca attcccggat ctgctccttc agcacctcca cctcctcccg gaccgcaaac    660
atgaggtggg acttcaccaa gtccatggct tgctcgattt tgttgtcaat gccaaccagg    720
cttccggagc cactatcatc gtcgctgtct aggtgaccac tgatggccaa catggagtgg    780
gccaggctga acttctgagc tgctactgct ccgaaggggt ctggagattt gtgaaccagg    840
ctggcatcgt gggtgaagta gagggctggg gagctggggc gagagtcaag tgggggcacc    900
tgccccatct cttctggagc acccaactcc atccgcagcc gcatgtctac agctttcctc    960
cgggacagtg gaggggtcct ggcccctgag ccccccagcct ccgcttccac cctcagagag   1020
ggcaggggcg tggcagcccg ggatgtgccc gcactctcac cggtctcagg ctctgggggg   1080
cgctgctggg gtgaggaggc cgacagtggg ggtttctctg ccttggcttt gctgggcacc   1140
accagctggc ccagtccccc agtgaaggag cgggcctgag gtccaggaga ggtggggggt   1200
ggacggagcc aggaggtggg gccctgagac aggcctgacg gtggggtggg ggcgcccagg   1260
ccgaggctgg ccagctccaa cctggaatcc aaagatctgc ccccggcgcc ccctgaggcc   1320
cctcgaattc cctccaggag tccgccgaag ctgtggggct ccaggtctcg ctcataaaca   1380
tccacacacg tccagcgacc gcggcgataa ggctctccca ggccgtgggg cagcttcacc   1440
acccggaaac gggaggaagg ggccccaggt ggtggggagc cattccgggg ggtgcccttg   1500
ccccccggat cggggctggg ctccccattg ggcaggcggg gcggggggccc ggttgggggc   1560
tgtggggtag ggggatccga agccctggg ctcccagggc cctcatagtc cgtggtgacg    1620
ctggtgattt ggaaactact cttcttcttg ccccgctca tggtccctgg ggctcagggc   1680
tgggccaagg ttgggggtgg gttagtgatc cttgaagggg ctcaggcacc cctggaacaa   1740
ggggggccaca tggcggggac atccgagccc ctgggacgt ctgggtccga catggcagga   1800
gggcctggcg ggaaccgggg gtgcctgctg ggtgagggga aagaggaga ggggaggtgg    1860
cgggagggggg gagcaggggc aggtttttcc tgctgctgtt gctgctgaac tccagagctg   1920
agtttgcaaa ctctggggcc tcggccactg atctgagcct gagggtcccg cgcctaaga    1980
ggtcgggctg tccgttccct ggggcctcct ggccatgggc agtggcggggg cacgcaggcg   2040
gcgatcagag gctgtcccgt cctctccggg ggccgcggct catcctgcca ggcatctccg   2100
```

5250

```
aggaaagttt gctctccgga aaagaaggaa cccgcgcctc ctccgaggag cctaggagcg    2160
gcctctgaag ccccaagggt ctggagactg atgtgggagg gggcggccga gccccctct     2220
gctcccggtg gcagccagcg agtgggtgtc ccgagtctcc tcccgcgtga ccctgctggg    2280
tccgtgtctc cgctcctcgg ctccctggg tctctgcctc tacgaaa                   2327
```

<210> 6600
<211> 4091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (190)...(2387)
<223> similar to gi3184498 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6600
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attctttgga atactactgc tagaagtctg acttaagacc cagcttatgg gccacatggc      60
acccagctgc ttctgcagag aaggcaggcc actgatgggt acagcaaagt gtggtgctgc     120
tggccaagcc aaagacccgt gtaggatgac tgggcctctg ccccttgtgg gtgttgccac     180
tgtgcttgag tgcctggtga agaatgtgat gggatcacta gcatgtctgc ggagagcggc     240
cctgggacga gattgagaaa tctgccagta atgggggatg gactagaaac ttcccaaatg     300
tctacaacac aggcccaggc ccaaccccag ccagccaacg cagccagcac caacccccg      360
cccccagaga cctccaaccc taacaagccc aagaggcaga ccaaccaact gcaatacctg     420
ctcagagtgg tgctcaagac actatggaaa caccagtttg catggccttt ccagcagcct     480
gtggatgccg tcaagctgaa cctccctgat tactataaga tcattaaaac gcctatggat     540
atgggaacaa taaagaagcg cttggaaaac aactattact ggaatgctca ggaatgtatc     600
caggacttca acactatgtt tacaaattgt tacatctaca acaagcctgg agatgacata     660
gtcttaatgg cagaagctct ggaaaagctc ttcttgcaaa aaataaatga gctacccaca     720
gaagaaaccg agatcatgat agtccaggca aaaggaagag gacgtgggag gaaagaaaca     780
gggacagcaa aacctggcgt ttccacggta ccaaacacaa ctcaagcatc gactcctccg     840
cagacccaga cccctcagcc gaatcctcct cctgtgcagg ccacgcctca cccttccct      900
gccgtcaccc cggacctcat cgtccagacc cctgtcatga cagtggtgcc tccccagcca     960
ctgcagacgc ccccgccagt gcccccccag ccacaacccc cacccgctcc agctccccag    1020
cccgtacaga gccacccacc catcatcgcg gccacccac agcctgtgaa gacaaagaag      1080
ggagtgaaga ggaaagcaga caccaccacc cccaccacca ttgaccccat tcacgagcca    1140
ccctcgctgc ccccggagcc caagaccacc aagctgggcc agcggcggga gagcagccgg    1200
cctgtgaaac ctccaaagaa ggacgtgccc gactctcagc agcacccagc accagagaag    1260
agcagcaagg tctcggagca gctcaagtgc tgcagcggca tcctcaagga gatgtttgcc    1320
aagaagcacg ccgcctacgc ctggcccttc tacaagcctg tggacgtgga ggcactgggc    1380
ctacacgact actgtgacat catcaagcac cccatggaca tgagcacaat caagtctaaa    1440
ctggaggccc gtgagtaccg tgatgctcag gagtttggtg ctgacgtccg attgatgttc    1500
tccaactgct ataagtacaa ccctcctgac catgaggtgg tggccatggc ccgcaagctc    1560
caggatgtgt tcgaaatgcg ctttgccaag atgccggacg agcctgagga gccagtggtg    1620
gccgtgtcct ccccggcagt gccccctccc accaaggttg tggccccgcc ctcatccagc    1680
gacagcagca gcgatagctc ctcggacagt gacagttcga ctgatgactc tgaggaggag    1740
cgagcccagc ggctggctga gctccaggag cagctcaaag ccgtgcacga gcagcttgca    1800
gccctctctc agccccagca gaacaaacca agaaaaagg agaaagacaa gaaggaaaag     1860
aaaaaagaaa agcacaaaag gaaagaggaa gtggaagaga ataaaaaaag caaagccaag    1920
gaacctcctc ctaaaaagac gaagaaaaat aatagcagca acagcaatgt gagcaagaag    1980
```
```
                              5251
```

```
gagccagcgc ccatgaagag caagcccct cccacgtatg agtcggagga agaggacaag    2040
tgcaagccta tgtcctatga ggagaagcgg cagctcagct tggacatcaa caagctcccc    2100
ggcgagaagc tgggccgcgt ggtgcacatc atccagtcac gggagccctc cctgaagaat    2160
tccaaccccg acgagattga aatcgacttt gagaccctga agccgtccac actgcgtgag    2220
ctggagcgct atgtcacctc ctgtttgcgg aagaaaagga aacctcaagg tctgagaaag    2280
ttgatgtgat tgccggctcc tccaagatga agggcttctc gtcctcagag tcggagagct    2340
ccagtgagtc cagctcctct gacagcgaag actccgaaac aggtcctgcc taatcattgg    2400
acacggactc ttaataaaac ggtcttcagt tccagattcc ttcccagcaa gctatagctt    2460
aagtccattt tcttccgtga aagggacagg actccatcaa gttatggaat tcctcagagc    2520
cctgggcctg tcccccgggg tggattagtc atgtccagca gcacacgcct agtcccgcct    2580
tcgggaaggc tgcctgcctg gccagccgcc caggtctctc tgtgtaaaga ctgcctgggc    2640
tgtcctgccc agccttcctg gttctctggg gtcctctggg tgggtggcat ctcctggagg    2700
gtgatgacaa tccccaacac atgcattcat gtggtgctac tctgtgtgcc aaagctaaga    2760
ccccaagtat gtttttctctc tttgtcccat ccctcttttt ctgggacttt ggaccctaac    2820
tacttccctc ctgaaccttg cagtgacatc agtccaggag agctctcgtt cagtgtgcgg    2880
aagaacactc tgacctctag agctgtccta gataaggagt gggagcttta gaggcaaggc    2940
ctctagaccc tggaaggctc agtgaggctc ttcccacagc atgcttctca ctggtgccct    3000
gtaaggctcg agccaccgct gactctgagc cttttggagt ctttcctcct tcgtctccat    3060
tgttcccgtg catttccaaa agcttaagtt gcctggtggg catttcccca gtttctttgg    3120
cctccgtctt ctcaagtcac atagggaaag tacctcctgg aaccaggctg cagtatgcag    3180
gacctgccag gcaggcactg gtgaagggcc ttgggcctat catcccccca accccacctc    3240
accccacccg cctcctctag tggggtgagt ctgggctggt ggaccagaga gggtgtcaca    3300
gaccctcagg gactgcccca tggacacctc tgactggtgt taacagtgtg aacattttcc    3360
ccgtcttcag tcccttagaa tgacgacagc ccctggggtt ggggcaggcg agtgtggcca    3420
catcatccaa gccctcccag agacacaaat aggctttttt gctctaaaaa taaataccag    3480
cccttttttg gtcacaaatc cagcatctca gcagaaaact gcctgacatg aaaagtcccc    3540
tgaggaactg catctgcgtt tcaggggctt ttcatttttt ctcctttttt aaagtgtaga    3600
ttgtgggtgc ttcctagagg cctgccttct tctggaactg gaagtgggct atcaccatgg    3660
gcaagccctt gggtgcaggc tccccacctg cctgggaact ctggcagctc tcctcagctc    3720
cttgggcttg agcagctgca actgccccag atttgctgtg gaagcagggg ctagccctgg    3780
cctcaccagg gcctcccggg gccctgcatt gatgctcagg agttcctggg ctgctcttga    3840
tcctttctgg gcatccagct tccagttaag ctctgtttgc caaacaaact attctcagct    3900
gcccttttggc ctgcgcctga tgtgttcctg ttgcagtccc gcctgcctga gacaggagca    3960
ggcaggagag ccttcatgcc cagattccca caggacaatt ggggagctgc tggcattgtc    4020
tttctgggaa gattctgctt tcttggacca aatggcagcc tgattaccca gtgtcgggcc    4080
tgcatgctgc c                                                         4091
```

<210> 6601
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (499)...(688)
<223> similar to gi3093358 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6601
ggaggcggga ggcagtgtca tacgggttct gtggttgaac tgcatcgtcc gagggaacgc   60

```
tggtcggagc gccgggtgga gcgccagggt cctctggtgg tcgctggatg ttggtagttg      120
tgggtaagag ctctgtgccg ggagtgtctg gacccccggg tcctccattc tcagctgcag      180
tggccggagc ccactgctct cccccgcact gggtcgtggt aacccacaag gtgccacctg      240
cgtcactgac catcgtttcc agaagcccct ccggccacac attccatgtg gtatctccca      300
caaggaaatg ttcgtttttt tccctgtgaa gccagaaatt tcttggtggc tctttgccga      360
gccaaacgtt aaccttgagt tgtctctctg ggcggcccca ggtggtacca gttctcacgg      420
gtgttgaagg agagtgagga tggccctgag ggaagcccag ttggtttggt tggggaggcg      480
ttggggctat ggccctgaga gaggtgtggg cggtgttggg accaggcccc ttctgcaccc      540
tcccctggca ccgccgttaa ctctccaggc ctggtgtggc ccaagccacc ctgcctaccc      600
gtgctaccct acccacacgt gccaccctga cctgcttgtg ccatcctgcc cgcccgtgcc      660
acactgccca cccgtgccac cctgccccgg cgcgcggccg c                          701




        <210> 6602
        <211> 2217
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (77)...(1862)
        <223> similar to gi791002 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 6602
        ggaagccttg gcactagcgg cgcccgggcg cggagtgcgc agggcaaggt cctgcgctct       60
        gggccagcgc tcggccatgc gatccgccgc gcggagggga cgcgccgcgc ccgccgccag      120
        ggactctttg ccggtgctac tgttttttatg cttgcttctg aagacgtgtg aacctaaaac      180
        tgcaaatgcc tttaaaccaa atatcctact gatcatggcg gatgatctag gcactgggga      240
        tctcggttgc tacgggaaca atacactgag aacgccgaat attgaccagc ttgcagagga      300
        aggtgtgagg ctcactcagc acctggcggc cgcccgctc tgcaccccaa gccgagctgc      360
        attcctcaca gggagacatt ccttcagatc aggcatggac gccagcaatg gattaccggg      420
        cccttcagtg gaacgcaggc tcaggtggac tccctgagaa cgaaaccact tttgcaagaa      480
        tcttgcagca gcatggctat gcaaccggcc tcataggaaa atggcaccag ggtgtgaatt      540
        gtgcatcccg cggggatcac tgccaccacc ccctgaacca cggatttgac tatttctacg      600
        gcatgccctt cacgctcaca aacgactgtt gacccaggca ggcccccga agtggacgcc      660
        gccctgaggg cgcagctctg gggttacacc cagttcctgg cgctggggat tctcaccctg      720
        gctgccggcc agacctgcgg tttcttctgt gtctccgcga gagcagtcac cggcatggcc      780
        ggcgtgggct gcctgttttt catctcttgg tactcctcct tcgggtttgt gcgacgctgg      840
        aactgtatcc tgatgagaaa ccatgacgtc acggagcaac ccatggttct ggagaaaaca      900
        gcgagtctta tgctaaagga agctgtttcc tatattgaaa gacacaagca tgggccattt      960
        ctcctcttcc tttctttgct gcatgtgcac attccccttg tgaccacgag tgcattcctg     1020
        gggaaaagtc agcatggctt atatggtgat aatgtggagg agatgggact ggctcatagg     1080
        taaggttctt aatgccatcg aagacaatgg tttaaagaac tcaacattca cgtatttcac     1140
        ctctgaccat ggaggacatt tagaggcaag agatggacac agccagttag ggggatggaa     1200
        cggaatttac aaaggtggga agggcatggg aggatgggaa ggtgggatcc gagtgcccgg     1260
        gatcttccac tggccggggg tgctcccggc cggccgagtg attggagagc ccacgagcct     1320
        gatggacgtg ttccctactg tggtccagct ggtgggtggc gaggtgcccc aggacaggt      1380
        gattgatggc cacagcctgg taccttgct gcaggagct gaggcacgct cggcacatga     1440
        gttcctgttt cattactgtg ggcagcatct tcacgcagca cgctggcacc agaaggacag     1500
        tggaagcgtc tggaaggttc attacacgac cccgcagttc caccccgagg gagcgggggc     1560
```

5253

```
ctgctacggc cgaggcgtct gcccatgctc cggggagggc gtgacccatc acagacccc   1620
tttgctcttt gacctctcca gggacccctc cgaggcacgg ccctgaccc ccgactccga    1680
gccctgtac cacgccgtga tagcaagggt aggtgccgcg gtgtcggagc atcggcagac    1740
cctgagtcct gtgccccagc agttttccat gagcaacatc ctgtggaagc cgtggctgca   1800
gccgtgctgc ggacatttcc cgttctgttc atgccacgag gatgggatg gcaccccctg     1860
aatgccagga ctgtgagaga ggatccagga gagcctgact gcgttgcaaa caaaattctc    1920
caagcttggt tctatcttca gcttcccttt ttgcaaggaa catgccctgg actgagagtg     1980
ggtccccact ttctttcttt ctttctttct tttttttga dacagagtgt cgctctgtcc       2040
ctcaggctgg agtgcagtgg cgcgatctct gctcactgca acctccgcct cccgggttca   2100
agcgattttc ctgcctcagc ctcctgagta cccgggatta caggcaccag gcacctgcca    2160
ccatgcctag ctaattttg agttttggtg gggacagggt tttaccccat gcccagg          2217
```

<210> 6603
<211> 3167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3168)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (129)...(1918)
<223> similar to gi4689258 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6603
```
gcggccgccg cgccggggcc cagccggagc cgccgccctc gcccttgcct ttgcctgcgc   60
ggctcagaat caccatccgc ggcgcgggag acgagccggc cagtcccggg ccgagggacc   120
cgcccgccat ggccaccaag gctcgggtta tgtatgattt tgctgctgaa cctggaaata   180
atgaactgac ggttaatgaa ggagaaatca tcacaatcac aaatccggat gtaggtggag   240
gatggctgga aggaagaaac atcaaaggag aacgagggct ggttcccaca gactacgttg   300
aaattttacc cagtgatgga aaagatcaat tttcttgtgg aaattcagtg gctgaccaag   360
cctttcttga ttctctctca gccagcacag ctcaggccca gttcgtcggc tgccagcaac   420
aatcaccagg ttggcagtgg caatgacccc tggtcagcct ggagtgcctc caaatctggg   480
aactgggaaa gctcaaaagg ctgggggggcc cagccagagg gggctggagc ccaaagaaac   540
acaaacactc ccaacaactg ggacactgcc ttcggccacc cccaggccta ccaaggacca   600
gcaactggtg atgatgatga ctgggatgaa gactgggatg ggcccaaatc cttcttccta   660
ctttaaggat tcagagtcag ctgatgcagg cggcgctcag cgaggaaaca gtcgtgctag   720
ttcctcatcc atgaaaattc cccttaacaa atttcctgga tttgcgaaac ctggcacgga   780
acagtatttg ttggccaaac aactagcaaa acccaaagag aaaattccca tcattgttgg   840
agattatggc ccaatgtggg tttatcctac ctctactttt gactgtgtgg tagcagatcc   900
caggaaaggc tccaaaatgt atggtctaaa gagctacatc gaatatcagc taacacctac   960
taacactaat cgatctgtaa accacaggta taagcacttt gactggttat atgagcgtct   1020
cctggttaag tttgggtcag ccattccaat cccttctctt ccagacaaac aagtcacagg   1080
ccgctttgaa gaggaattta tcaaaatgcg catggagaga cttcaggcct ggatgaccag   1140
gatgtgtcgc catccagtaa tctcagaaag tgaagttttc cagcagttcc taaatttccg   1200
agatgagaag gaatggaaaa ctggaaagag gaaggccgag agagatgagc tggcgggagt   1260
```
```

                                    5254
```

```
catgatattt tccaccatgg aaccagaggc acctgacttg gacttagtag aaatagagca    1320
gaagtgcgag gctgtgggga agttcaccaa ggccatggat gacggcgtga aggagctgct    1380
gacggtgggg caggagcact ggaagcgctg cacgggccca ttacccaagg aatatcagaa    1440
gataggaaag gccttgcaga gtttggccac agtgttcagt tccagtggct atcaaggtga    1500
aacagatctc aatgatgcaa taacagaagc aggaaagact tatgaagaaa ttgccagtct    1560
cgtggcagaa cagccaaaga aagatctcca tttcctgatg gaatgtaatc acgagtataa    1620
aggttttctt ggctgcttcc ctgacatcat tggcactcac aagggagcaa tagaaaagt    1680
gaaagaaagt gacaaactag ttgcaacaag taaaatcacc ctacaagaca aacagaacat    1740
ggtgaagaga gtcagcatca tgtcttacgc gttgcaagct gagatgaatc actttcacag    1800
taaccggatc tatgattaca acagtgtcat ccgcctgtac ctggagcagc aagtgcaatt    1860
ttacgaaacg attgcagaaa agctgaggca ggccctcagc cgctttccag tgatgtagga    1920
cagaacgggc cttgaagaga atgccgcgtg ctttctcctg acttggggca atgcaattca    1980
aaactttttt tcccctatta ttcagaaaaa aaaggaaaca aaaccaaaaa gaaagagttg    2040
caaaaaactg catttatttt attagccacc ctaaatgcgt cagttattta gggatggtct    2100
tttgttcatt tccgcatcca ttatttaaac cagtggaaat tgtctctatt tttggaaagt    2160
acttaaaagt taccagaatt ttcaatggaa aatgaggggt ttctccccac tgatatttta    2220
catagagtca taatttatat gtcttataaa ttataagtct tatataattt ataagtctcc    2280
cacaatcttc cagttcttac ccagtgtcag ataattaatt actaattact ttcttaaaaa    2340
catgaactat gccagaataa aaaatatcta tgtttgtata tttttataac tcctttcagt    2400
cctctggggc tcctgtcatt gagggaagtc gttacgcctt tcactgccac agttcacagc    2460
ttcaagtgct tacacttcaa gaggggaggg acgctggggg gccctgggg ctggcttagt    2520
gcccatcgtg ggtgtgtggg ccaggtgggg ccatccccat gtccctccag gggggganccc    2580
acagcctggg gcagatgagc agataccct ggccacccat gtcctcagcg acatttctga    2640
tgtgctgctc ttatgtgagg accagtgctt tctctctttg cacttccttc ctaatcttgg    2700
ttaaggcatg ttttatgcca tgaagaatac attagaagaa ttgagggact ttgtagagaa    2760
ttttgtggct ttggtccaac gggtgagtgg ctgtgcggag gcctgtgttc gggagggcct    2820
gggggaagga gggcacccag caccccggcg tctctggccc tttcttattc tttggctcct    2880
catccaccgt gatgagaagc gctgctgtgg ccacggcaca ctgcttggct tgggtggcgg    2940
gttcatggcc agttggtgtc atcagcaaag agaaaaagca caggttagct ccccattaga    3000
tggaaaagtg tagggactga gaagggctgc agcctcagca gtgtacagag tccccggcgc    3060
tctgaggttg gagagaaaga acagaccagc gcccttcctg actacatccg aaacttcaca    3120
cagggtgttt ctgagcacca gcacttccag cgcttcactt aacggca             3167
```

```
<400> 6604
cagatgtcag gacaccctca ctcccgacaa agatgccttt attgggcgac agacgcgggg     60
tggggcgcta gcggggtgc acggcgggcc ggtaggccgc caggatctcg gcgctgtgcg    120
gacacgtgta tttgaactct ttctcctgca gcgcgctgaa ccaggtagcg gagtacgccg    180
agcagctccg tggtgatggg cgcctgtcgg aagtgcgcgc acaccgtgtc gaccgatgtg    240
cagcttgggc aggaaggctg cagtcggccc aagcgtgaag cctttcgccg tccaggaagc    300
```

5255

```
ggcggcggga acttcgcgca ggcttcggct cccccgcca gctcgtgctc ccaggggcgc      360
gcgcaggtag ctgtccaagc cctggcgaag ggcggcgcag cagctgctgg tacagggctt      420
cgtcctgcgc gggcaccggg ttcttgatga acgcggagaa cttgtggaaa acgtcgttgc      480
cggcggtgtt ggactccctg taacgaggcg ccaggctggg gaagtcgggc ggccccagcg      540
tctcctccag aaagtcctcg atctgcagcg tgtctgtctt ggcgtcgctg tcatagagca      600
ggatgggcag ctgcgagccg ggggcgaagt ccttcagcac gtccggggac ctgcgcgtgt      660
ccaccgtggt gagggtgaaa ggtacgccct tgaggagcag gaccatgaag agccgctggc      720
aggaggggca gtgacccacg ctctccccgt cctcactcgc cttgacaaac agctggagct      780
tggtctccgc catggtggga                                                  800
```

```
        <400> 6605
ggccttgctg agtttctcta ggggcaggta gcacacacct gccttatgtc atgtgtttgg       60
aaaaactttt gtctcctcat aactccagca cagctcagag atgggaaggc gactttttat      120
attaacctga ggagggtatt aaatgaagaa ggcaatccag acaagtggct atttcctcct      180
agctttggct ctggggacac cttggcatcc tgggtgacat ggtaggttac agagccgcta      240
aaatgggcat gggcagacac actgatccaa tactaagagt tcagctgtag cgtccggtgt      300
ttcatgatac tcacttgtct tcctcccttg caacccagcc atttcatggg accaacgggc      360
caccacaggg catgggatca gatctcaaca cattctgcag gcccttgtcg aaattcttcc      420
ctagttcact agtgggagag ggattgggtg tggttgccaa agaaataaaa gcgttgaaat      480
ttcaatagaa atgccataat ttattccatt gtataaaaaa gtcatcctta tgtaacaaaa      540
tgtcttctta gaagaagaaa tatattattt caggtcataa ataatcagca aacatacaac      600
tgttggcaac taaaaaaaaa cccaacactg gtattttcca tcagtgctga aaacaaacct      660
gcttaagata tatttacagg atagtacagt actcaaaaac aaaaattgag gtatttggtt      720
cttctaggag tagacaatga catttgtgaa ggcagacacc tacacaaaaa taaataaggt      780
atattctcat atgtatatgt gtcgtcggga ataatactgg taggtatgtc aagcatgaag      840
agattctaca aaaaacaggg gcgagcaaaa agaaaccgga tcacacactg agtcctttct      900
cttctgcccc attttgtcag atggacttga tgtacccact atatattggt cccgaatgtg      960
ctgagttcag caaatgtctt gacgctaagt catcaccata actgcttaga aacccagagg     1020
aactcgggtg aagttaaata aataaggacc agccctctcg agccctccc agagttattg      1080
catttctcct ctcaaggagc atggagtccc aatgggatgt gaagagcctc acctcccgtg     1140
gcctttcagc agctgggaga ggtcgtaatg gggctctgaa ggtagctcag cgcactgttc     1200
gtggagtgga cagggatgga gacgggggaag ttgaacacgg tggtggtgga ggtgcctcgg     1260
tcgagcacag ccatggcggg gctcccagcc tctgccgaac agtgcggagc cagcacctgg     1320
gactcaaact gcagcagctg gcccatgaag ctgaagttgg gagagatgat gcttcgcctc     1380
tgcttcacaa actcaaaggc ctcgtccagc ttgactcgat tagtcctcat aaggtaagca     1440
aggcagatgg tggctgaccg ggaaatgcct gcctggcagt ggacaaacac ccttcctcca     1500
gcattcttga tggagtctat gaagtcaatg gcctcgttga accaggagct gatgtctgcc     1560
ttgtggttgt cctccacagg gatgctcttg tactggtagt gaccctcaaa atggttggga     1620
caattggctg agacgttgat caaggcagtt atgcccaagg catccagcat gtccttgcgg     1680
```

                                     5256

```
gaagcgtgat acgcactgcc caggtacaga aagggcagga tttccaccgg gccaccctga    1740
tcgtagagtg gggtactgca ggaactgcac ccagattccg cgctgtcagg gacgctagta    1800
ctcaggggaa ggctgagccc catggggggtc gactgtttgc tgcacagctc cgggcaggaa    1860
gccgaaaacg cttcgtatcc tcctttgagg aagaagactt gcgcggcgcg cgcctcgcgg    1920
cagagcgcgc cggccgccag ggccagggtg ccgtcgcgct tggcgccgtc cagggcggcg    1980
ctgcgctcgt ccagcaacac cacggcgtgg taggcgccgg ccagcaggcg gcgcgcggag    2040
ctcggcgttt gggcaacgat gtgcttccaa ggccccaatg gcgccctttg gccccggcgg    2100
ccgcaacgat ggtgctgaag cgcacgttga cagagccggc gatgtggccg gcgttgaaag    2160
cgaagaagga gcggcagtcc agcagcaggc attgcgccgc tcgctccccc agcagcgccc    2220
gcaggcctcc agcgtccagg gtgcccactt ccatgaccat ggccggcctc agcgccccca    2280
gcgtgatcgg ccctgcggtg ctctttgtct gttctcgggg ccaagggcag ggcggcgctt    2340
ttcgaggaaa agctagaccc ccgggtctct ctgcgccgaa ccaaaagccg cttttggact    2400
gagagaggag cgtcacgcgg ggctccgggc tcctcggctt cttcgcggtt cccccgactg    2460
cccctccgac ccgcgtcgca cacacagccc aaatg                              2495
```

<210> 6606
<211> 5022
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (459)...(4624)
<223> similar to gi5911978 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6606
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gccgctgccc gagatcccaa acgtgccccc cactgaaggg caaagtccag cggattctac     180
actggaggtg gacggagccc cctgccccct tcatggtggg gctgccgggg cctgacgtgg     240
agcccagcct ccctccacct aagcccctgg agggcatccc tgagagagag ttctttgtca     300
agtgggcagg gctgtcctac tggcattgct cctgggtgaa ggagctacag ctggagctgt     360
accacacggt gatgtatcgc aactaccaaa gaaagaacga catggatgag ccgccccct     420
ttgactacgg ctctggggat gaagacggca agagcgagaa gaggaagaac aaggacccc     480
tctatgccaa gatggaggag cgcttctacc gctatggcat caagccagag tggatgatga    540
ttcaccgaat cctgaaccat agctttgaca agaagggga tgtgcactac ctgatcaagt    600
ggaaagacct gccctacgac cagtgcacct gggagatcga tgacatcgac atcccctact    660
acgacaacct caagcaggcc tactggggcc acagggagct gatgctggga gaagacacca    720
ggctgcccaa gaggctgctc aagaagggca agaagctgag ggacgacaag caggagaagc    780
cgccggacac gcccattgtg gaccccacgg tcaagttcga caagcagcca tggtacatcg    840
actccacagg cggcacactg cacccgtacc agctggaggg cctcaactgg ctgcgcttct    900
cttgggccca gggcactgac accatcctgg ccgatgagat gggtctgggc aagacggtgc    960
agaccatcgt gttcctttac tccctctaca aggagggcca ctccaaaggg ccctacctgg    1020
ttagcgcgcc cctctccacc atcatcaact gggaacgcga gtttgagatg tgggcgcccg    1080
acttctacgt ggtcacctac acgggggaca aggagagccg ctcggtgatt cgggagaacg    1140
agttttcctt tgaggacaac gccattcgga gtgggaagaa ggtattccgt atgaagaaag    1200
aagtgcagat caaattccac gtgctgctca cctcctatga gctcatcacc atcgaccagg    1260
ccatcctggg ctccatcgag tgggcctgcc tggtggtaga tgaggcccac cgcctcaaga    1320
acaaccagtc caagtttttt agggtcttaa acagctacaa gattgattac aagctgctgc    1380
```

```
tgacagggac cccccttcag aacaacctgg aggagctgtt ccatctcctc aacttcctga   1440
ctccagagag gttcaacaac ctggagggct tcctggagga gtttgctgac atctccaagg   1500
aagaccagat caagaagctg catgacctgc tggggccgca catgctcagg cggctcaagg   1560
ctgacgtgtt caagaacatg ccggccaaga ccgagctcat tgtccgggtg gagctgagcc   1620
agatgcagaa gaagtactac aagttcatcc tcacacggaa ctttgaggca ctgaactcca   1680
aggggggcgg gaaccaagta tcgctgctca acatcatgat ggacctgaaa aagtgctgca   1740
accaccccta cctcttccct gtggctgccg tggaggcccc tgtcttgccc aatggctcct   1800
acgatggaag ctccctggtc aagtcttcag ggaagctcat gctgctacag aagatgctga   1860
agaaactgcg ggatgagggg caccgtgtgc tcatcttctc ccagatgacc aagatgctgg   1920
acctcctgga ggacttcctg gagtacgaag gctacaagta tgagcggatt gatggtggca   1980
tcaccggggg cctccggcag gaggcaatcg acagattcaa tgcccccggg gcccagcagt   2040
tctgcttcct cctctcaacc cgggcaggtg gtctgggcat caacctggcc acggcggaca   2100
ctgtcatcat ctacgactcg gactggaacc cgcacaatga catccaggcc ttcagccgcg   2160
cccaccgcat cggccagaac aagaaggtga tgatctaccg cttcgtgact cgggcctcgg   2220
tggaggagcg catcacgcag gtggccaagc gcaagatgat gctcacccac ctggtggtgc   2280
ggcccggcct cggctccaag tcggggtcca tgaccaagca ggagctggac gacatcctca   2340
agttcggcac ggaggaactc ttcaaggacg acgtggaggg catgatgtct cagggccaga   2400
ggccggtcac acccatccct gatgtccagt cctccaaagg ggggaacttg ccgccagtg   2460
caaagaagaa gcacggtagc accccgccag gtgacaacaa ggacgtggag gacagcagtg   2520
tgatccacta tgacgatgcg gccatctcca agctgctgga ccggaaccag gacgctacag   2580
atgacacgga gctacagaac atgaacgagt acctgagctc cttcaaggtg gcgcagtacg   2640
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acgtggaccc cgactactgg gagaagctgc tgcggcacca ctatgagcag cagcaaggag   2760
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cgacaatccc ggaggcagct gaagagtgac agggacaagc ccctgccccc gcttctcgcc   3000
cgagttggtg gcaacatcga ggtgctgggc ttcaatgccc gacagcggaa ggcctttctg   3060
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cgggaccttc gagggaagag cgagaaggag tttagagcct atgtgtccct cttcatgcgg   3180
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cccgagggga agaagccggg cgaggtgatc tcctcggacc ccaacacacc agtgcccgcc   3420
agccctgccc acctcctgcc agccccgctg ggcctgccag acaaaatgga agcccagctg   3480
ggctacatgg atgagaaaga ccccgggggca cagaagccaa ggcagcccct ggaagtccag   3540
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aaggagagag cccgagagga gcggccagag gagacggaga aggccccgcc ctccccggag   3660
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tctgaggtcc acaagggcaa ctacctggag atgaagaaca gttcctggcc ccgcaggttt   4140
aagctgctgg agcaggcgtt ggtcattgag gagcagctcc ggagggccgc gtacctgaac   4200
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tgcctcgccg agagccacca gcacctgtcc aaggagtccc ttgctgggaa caagcctgcc   4320
aatgccgtcc tgcacaaggt cctgaaccag ctggaggagc tgctgagcga catgaaggcc   4380
gacgtgaccc ggctgccatc catgctgtcc cgcatccccc cggtggccgc ccggctgcag   4440
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caggcgctt tcggctcctc ccagatgtac agcaacaact tgggcccaa cttccggggc   4560
cctggaccgg gagggattgt caactacaac cagatgcccc tggggcccta tgtgaccgat   4620
atctagccgt cctcgagact tccctgtgtt gcagcgctca tttccagctg agccacgcct   4680
gccgggccac ctgcccgacc cacatgggag agaaaagctg ccacctttt aggagccagc   4740
accaccttgg gacaaaaagg gaaacctagt aatgccatca catggaggac gaggcccagc   4800
```

                              5258

```
tcagctgggc cagagcccag aagtgccacc tcatcataat tcaagtgttc ttccacacag    4860
cgttgccccc acaaccacgc cggacgtgcc ccctcgccac cttttccaga cgacttctta    4920
gaagagattt catttatttg tacatctttt gcactttcct attgaagact tgaacacgtt    4980
tgtcttgata aaagttggat gacgtatgga agattcgaaa aa                      5022
```

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tggcgtcatc tttgtcttca tgttccttca ccttcatgtc ctcctgcagt ttggccgact      60
cttcctcccc aatgtatctg ctgaaaacca caggatgggc ctcacccatg aaatcgtgct     120
cggcttcctc tatgtccacc acatccgagt cagaatcctg cctgaggaga gtccacggct     180
ctgaatcgtg ggagttgggg ctttttgaac aactaacata taaccttccc tcggtgtctt     240
catcggccct gcctacatga aggaagaagc catccgtgga tggtccctgg gggaacggat     300
cgaatccgcc aagggccaga ggcccaccac agacctctcc tgcggtttcc actgacagtg     360
gtcctgtctc ggtggggtcg atgcccatgg ggaattctga gcatggaatc ggggtaaaag     420
tcctattcaa gtcgcgactg ccagtcattt tccttcgtac caaaggctgg gggccctcgc     480
tgggcctcct agacacgatg ctcctcggtc tcccttcccc ccgttcatcc tccttggtga     540
tcacctgctt ctctttcgct ggcttaagaa ctgctggcat caaaggctcc aagaaaaaac     600
tgtcaggctt actttccgag gtgtccagct gtccttgggg agaccgggca tttgctgtaa     660
ggcctaaggc ccggggtgag gccctgggga actccgggtc agcctgctgg ggaaccacgt     720
ctgctctaac aatagccaca agctcctctt cctcatcctc aatactgaca ttgctcagga     780
ggctcttccc gtggctcttc gtggccgtgg ggtgtggctg gttctgtggg gtcagattaa     840
caatgttgga tgccaaactg tctttgctga tggagcgggc caagctgatg ctgtcgccag     900
agctgggatc cacttcacaa ctcgcagcgt gatgtagagc aaaaggtgtt ggctgggacg     960
caggcctggt ttttttttct ggccaggcta ttgctgctcc tcgaggctga ccatcaactc    1020
gggtcaaagc ggacgcgtgg gcggacgcgt gggcggacgc gtgggtcgac gcaggtactc    1080
agngacgntc gcatcggggn gtccgatt                                       1108
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<220>
<221> misc_feature
<222> (1249)...(3708)
<223> similar to gi397579 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6608
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cagaaagtct ggtaaatggg aaccacaccc cacagactgc aacacgggga ccctctgcct   120
gtgccagcca cagttccctg gtgagctcta ttgagaagga cctgcaagag atcatggact   180
cactggtgct agaggagcct ggagctgctg gcaagaagcc tgccgcaacc tctccactgt   240
caccgatggc taatggtggg cgctacctgc tgtctccccc aaccagcccc ggcgccatgt   300
ctgtgggctc cagctatgag aacacctctc cagccttctc tccactctct tcaccagcca   360
gcagtggaag ctgtgccagt cactcaccca gtgggcaaga gccaggacct tctgtgcccc   420
cgctggtacc tgcccgttcc tccagctacc atctggccct acagccccca cagtcccgcc   480
caagtggtgc tcgctccgag agtcctcggc tgagcaggaa agggggccat gagaggcctc   540
ccagccctgg cctccggggt ctgctgacag acagccctgc agctactgtc ttggcggagg   600
cccggagagc cactgagagc ccccggctgg gtgggcagct gcctgtggtg gccatcagcc   660
tgagtgaata cccagcttct ggtgctctca gtcaacccac cagcattcct ggcagcccca   720
agtttcagcc tccagtccct gctccccgaa acaagattgg cacactccag accgccctc    780
ccagcccttt ccgtgagcct ccaggcagtg agcgggtgct aacaaccagc ccctcacgcc   840
aactggtggg ccgaacattt tcagatgggt tagccacccg taccctgcag cctcctgaga   900
gtccccgcct gggccggcgg ggcctggaca gtatgcgaga actacccccc ttaagtccat   960
ctctgtcccg gcgagctctc tccccgctgc ccacccggac cacccagat cccaagctaa   1020
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aggacttctc cctgacgctg ggggcacggg gccgtaggac acggagcccc tcacccacac  1140
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ccgcagcatt ggcactggca ggccggaggc cctcacgagg ccttgcaggg gcctctgggc  1560
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ccaagatgga tggcgaggcc accagccccc ttccccggac ccgcagcggc ccctcccct  2520
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cagccacact gcaggacatc gagaccaagc gccaactagc tctgcagcag aagggacaac  2700
aagtgattga agagcagcgg cggcgactgg ctgagctgaa gcagaaagcg gcagctgagg  2760
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5260

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cacagtgcca gtgggatgcc cttcacgggg cagcaccctt cccagcgggc ccctcgggct   2820
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aggagggtga gcacgcctat gatacgctga gtctggagag ctctgacagc atggagacca   2940
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gccatggtgt tgatacctgc ctgcacgtgg tgctcagcag caaggtctgc cgtggctact   3360
tggtcaagat gggcggcaag attaaatcat ggaagaagcg ctggtttgtc ttcgaccggc   3420
tcaagcgcac cctttcctat tatgtggaca agcatgagac gaagctgaag ggagtcatct   3480
atttccaggc cattgaggaa gtgtactacg accacctgcg cagatgcagc caagaagagg   3540
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ctcccttcca ctggtgcctt gcttaagagc caagaaggga atgaagccgg gggatctatg   4560
gaacagagga ggagcgatgc agttgggaga ggaagctaag aagggttatg gttggagttc   4620
ttgtacagtg ttgagtttcc gacagggaat agaggattcc tccaatgctc ccaagagaga   4680
aagcctgagc aggagatgat gcagcagagg ggaagggccc tgtggttgcc gccgcccttc   4740
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cctcgccctt cacgccttaa cactaagccc acctcccctg ctctccttcc cagcattgag   4860
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aataaagcct ttggactacg gaagtg                                        4946
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<210> 6609
<211> 2389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (805)...(1806)
<223> similar to gi1613858 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6609

5261

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tggggttaaa tctcatcccg cggctctcct cctgtcggtc ctgcagttct tttgtccccg     120
ggtagaggga tcttctgcag aaatagcgct ggaagctaga gtgaggcctg agtactgcct     180
tggcctagga tggctagaga attaagtgaa agcacagccc tggatgccca gtctacagaa     240
gaccagatgg agcttctggt cataaaggtg gaggaagaag aagccggttt tcccagtagc     300
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gatgtggccc tgaccctcac ccctgaatgg acacagcagg attcatctca ggggaatctc     900
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actaagagca gggacttgcc tccagctgag gagcttccag aaaaggagca tgggaagata    1020
tcgtgccacc tgagagaaga cattgcccag attcctacat gtgcagaagc tggtgaacag    1080
gagggcaggc tacaaagaaa gcagaaaaat gccacaggag ggaggcggca catctgccat    1140
gaatgtggaa agagttttgc tcaaagctca ggcctgagta aacacaggag aatccacact    1200
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tatgagtgtg atgactgtgg gaagaccttc agccagagct gcagcctcct tgaacatcac    1440
agaatccaca ctggggagaa gccgtatcag tgcagtatgt gtggcaaagc ctttaggcga    1500
agttcacatc tcctgagaca tcagaggatc catactgggg ataaaaatgt tcaggaacct    1560
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cacccgaatt tcataccttg ttcaacatca gagaagccat gtagggaaaa acatcctatc    1800
acagtgaccc atgccataca tgccagagtt ggtgctcatt tgtcactgat ctgaagccac    1860
tcccctgga gtctcaacta tagaaattgt ggggtgggct ttatttacca ctacacatta    1920
tcaggtgtta gaaaatgtag actgggttag acaaattatc ttctaagttc tagaaggggt    1980
ttgtaatcaa aacatattta gtaggaggct acgggagagt tgtctagaag aggtaagacc    2040
tgaaactgtt tgttctctcc cactagaatt aaatggatgt ttagactggc tacttgccct    2100
aaaccagcac ttggtgatgt ctactgggtg gatggttgtg atttgggggc tgcttctctg    2160
accattcttt ttgactgtaa tgaatcctcc acagttggtc agattcataa agtcttatat    2220
ccccctctgt gccttttctg caggtgctaa taaatgttta ttgaatgtac cagtgagatt    2280
accttcatag atctgaaaat ctgatgttat ccaggtttct gaagaacttc tcgccaaggc    2340
catttgtgct tgtgtccaat tctctgacct agattgtgac tcagtctag               2389
```

<400> 6610
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ctcagcccag ctggttttgg ttcgtctctg aggctcagtg ttacagcgac tggctccacc   120
actcccctcc ctggccactg ggctccccag gcagggagga ggagaggcag ttcatctgtg   180
atgttggaaa gaatgggcag cagggtcaga ggccaaagaa agccatacaa gcagcggcat   240
gcctggagct ggagctgcca tcacatgcca agccccacca cacacacgcc cccgcgggtg   300
gccttgccct cgaagctctc tgccagccca cactcctcag ctttctgggg ccacaccctg   360
ctcaggcaga catgccactc gccctggctt gttcctggga ccccaggctg cccaagggaa   420
aggtaccgct cccaggtgct gcgcggctct gccctgccca ctctaaccct ggggctagca   480
agacgtgtca ggggaaccaa ggctcagatc attcccccctt catctacaac cctgccagcc   540
ctacagggat aaatcaaaag acaaaatctc cccatctcac agcgagtgac aagccgacct   600
gggctactac atgtcccaag atgcacagct ccgtaaccat acaccacctc ccccaagcgg   660
gatctatcag aaatgaggcc gggcacccccg cactctggga tttgtagtcc ccaggagcca   720
gcaccaaaca cccaaggaag agagtgcaca ggctaagact actgccacct cccacccggc   780
ccccacccgc cacccaggcc ccggctctac actcagcatg ggtgaggggg agaaatggag   840
ggtccccctcc cagcgcatgg gggaaggcgc tgtcctgttg gaactgtgca gcgattctgg   900
aacccggcat ccagctcaga acacatctgg ggagagagca ggggcggggt gacaggagag   960
agcgtcagcg gcaagctgtg gaggatgggg ctcagcatgc agacctgggc tgccgcatgg  1020
cctctccctg agccctgatt tgtggtaggg aagcagtatg ggtgcagtcc cctcctatcc  1080
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gaaagcaagc gatgcggccc gcagggagtt gcagagagaa tgggagggag gagaagcaac  1380
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gggtctgcag ctggtcccag gagagcagga ggctccactc tgcctgcact gctctccagt  1500
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gcaacacagg tggcagagta ccagggcaca aaaggcccag cccaaaccac taatgcccct  1620
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aaagcagttc ctacaactca ggatactccc ctcttctctt cccacagtga gtcagacccc  1860
ccagtcaaga tctggatcag atcaggttgg gcccggtgtt cagaggatga ggcagcgaga  1920
ggccttctcc tctggggatg gactgcgttt ggttgcttca ccccctcgcac cctcctgggt  1980
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ggccagctgc aggtcctcat cctcagagag gtcgctgtcc aagggcatg aggcaggggt  2160
ctgctggacc tgagtgcccc cagacctgga agtgactgac ggctgctgct cgcgacggct  2220
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cccatcctcc tccacttcca cccgctcctg cccgttctcc atgattctgc gtgtggtgat  2340
gcggcgtcct tggacaaagg tggtagatgt agaaacagag cgaaaagcac cagccccagg  2400
actgaaggag aaagatgagg aggagaaatc ggagtgccca gggaaggagg aagagaaggt  2460
aaagaagggg cctgagtgtc gggaaccccg gttctgaagc tctgagaagg gcccaggtc   2520
atcaaagagc tctgcaaaag ggtctccact cccaagaat tcccggaaga cctcctcggg   2580
gctgcggaag gtgaaggtga agccaggccc accactgcca gcttctgccc gagatgggcc  2640
agttcctgtc cctgtcagcc cttccggcc atagcggtcg taaatctccc gcttgtgctt   2700
gtcagacagc acttcatatg cctcggccac ctccttaaat ttcttctcag caaactcttt  2760
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gtcatcagcg gacgcactte gcggcacgtc taggatctcg tagtaggatg ccatggcaac  2880
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accaagagcc ccaccctgtg gctgcagcag tcccctccc cgggtggcgg aaggcgctcc   3000
cagttggaag cggagcacag cgggctctgc ttgcggccgg tgactaggct ccctccggca  3060
gccttatctg ccccgcagg ccggggccaa gagctatctc gacgcccagg accaggagcc  3120
catatcgggg ccccccaact ccagcagtcc gatccacgaa atcgt          3165
```

5263

```
<210> 6611
<211> 2148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)...(1719)
<223> similar to gi1063398 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 6611
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acctgggttc ctgaagggcg ggtggttagg tcgtaactac tgccccgcc ggctgagtct     120
ccgagcggcc gggctcggaa gccacgagcc agctgaggcg ttctccgctt agtgcctacg    180
gcatgggtca gctctttctg ccacctccgc cttcgcggtc ctcacctctt tgcgggtgaa    240
gttacctttg ggtttccaga ccttgggggc ctgaggccca aactcgggac gaacccctaa    300
cccacctctc ttttcctgtc attctccaac tcttactttg taccacggaa tcacttggcc    360
ttaaagctag ccagctcggc cgtgccttga ggccaggttc gagagataaa ggtaaccgtg    420
gggaaagcgg cccccagtg dacaaaggcg gaggcaagaa tagagcaggc ctgagggcca    480
taggcgatga gaataggcag ttgaggggtg aaaaagaaaa caaacaaaca acaacaacaa    540
accctgaaga gtactgaaga tttagaaggg actggaaagg acttgttgcg caatggaaga    600
atctgactct gagaaaacga cggagaaaga aaatctgggg ccgagaatgg atccaccact    660
aggggaaccc gggaggatcg cttgggtggg tgctaccaaa tacagccatg aaaaaaaagg    720
tgctgttgat gggtaaaagt gggtctggta agaccagcat gaggtctatt atctttgcaa    780
attatattgc cagagacaca cgtcgccttg gcgcaacaat actagaccgt atacatagtc    840
ttcaaattaa tagcagtttg agcacctact ctctcgtaga ctctgttgga aatacaaaga    900
catttgatgt agaacattct catgttcgat ttctgggaaa cctggtattg aacctgtggg    960
attgtggtgg gcaagacacc ttcatggaaa attatttcac tagccaacgg gacaacatct   1020
tccgaaatgt ggaggttctg atttatgtct ttgatgtgga gagccgcgaa ctggaaaagg   1080
acatgcacta ttaccaatca tgcctggagg ccattctgca gaattctcca gatgccaaaa   1140
tattttgctt ggtacacaaa atggatctgg tacaggagga tcaacgggac ctgattttta   1200
aagagcgaga agaagatttg aggcgtttgt ctcgcccatt ggaatgttct tgtttccgaa   1260
catctatctg ggatgaaacc ctctataagg cttggtccag catagtttat cagctgattc   1320
ccaatgttca gcagctggaa atgaacctaa ggaattttgc tgaaattatc gaagctgatg   1380
aagtacttct ttttgagaga gctactttc tggtaatttc tcactatcag tgtaaagagc   1440
agcgtgatgc ccatagattt gagaaaataa gcaacattat taagcagttc aagctgagct   1500
gcagcaagct ggctgcctct ttccagagta tggaagtcag gaactctaac ttcgctgctt   1560
tcattgacat ctttacatcc aacacttatg tgatggttgt gatgtctgat ccgtccattc   1620
cttctgcagc tactctgatc aacatccgca atgccaggaa acactttgaa aagctggaaa   1680
gagtggatgg accaaagcag tgtcttctca tgcgctaaac attgatgaat attgtttcac   1740
acaaaaatta aaagtttcct aattaatgtt gtattcatat atgtaggctc tgaaatgttg   1800
tgatgcttat tgcttctgta tttcttctct actccctagt cttaatgttt aaccttgaat   1860
gctattaact aaatagcca ttgaggagtt agaagatgaa ttgttcatga agtcggtgtt   1920
acataaaagt aggtgatatg taagttttct gataacaagg ttctaatagt gtttaaatgt   1980
actggtaacc tggttccaat agttgtgttt gcccaagcct ttctcggcat catcttgtat   2040
tccttatcag atagtaagta acctgtaagt ttggagtatt actgttttct cagcatgcat   2100
taaaaatatt ccttaacttc aattgtaaat aaacttttgg tgttaggg              2148
```

5264

<210> 6612
<211> 2127
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (342)...(202)
<223> similar to gi4240323 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6612
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cttaaaaatt aacaaataac tctgattttc actgttagga cactgttaca gagaaggaaa   120
catattgctc ttctaacttt tcttcttttt acatttatcc acattccaag tagattatca   180
tagtaaggtt cttctgtgtt acttttgtcc aagttgtgac aactgtttta tgaactgtgt   240
agcattaaaa agctcactgc agccatataa aatgtgtttg ccttgtttcc cctttatgta   300
gtcaacaaga ttctgatatt caatgtagtt gcctcctccc accacaaaaa caatggcctc   360
ttggaatgga ttttattttc tgggaactga gctgtcattg ccccgcagca ttttgggatc   420
aaaatatcta tagtcatcag tttcggggtt tgacttcatc tccataagat tgtccaaaat   480
acgagtaaca ggtagatttt gctgtttcaa aaccaggttc ttcactcctt ccatcacaaa   540
ctgtgatcct gtattcatga ctcgtgataa aagacccatt ggtttagtgg tagtgctgcc   600
atagctggcc ggagctgagg ccatcttggt aaaagccttc cactgtttga tatattgtaa   660
aggattaagg ttgcatcctg catcagttaa agcttttta tattgctcca aatcagcctc   720
agaaggtgct tgctgtgtgc ttatataata gataagaaac aacctcattt tatcttctgg   780
agttcctgca tcagggtctg atattatatc tagaagagat ttatccagag tagttttgct   840
cattattttt tcttcatatt caaaatatac atccaatttt cttgcctta tatgttctaa   900
aacagcagtg gcaacatttg tatggagatc aataagtctt tttttctcaa ggagttctga   960
gcaaagaact aacagctgat gttagcttag cggtattgtc agaaagcata cttatggctc   1020
cttcatcttc cccttctagt cccataatgc ttttaagtcg tttgacctca tcttcctgtg   1080
ctctgtaaga ttctagttct tgctgaactg attctgcaac ttctgggaat ggacttcctt   1140
tatgtttttg ccaaaattta tcaaccggag ttaaatcata agacttcttg ttttttctct   1200
ttggtctagc accagctgga gagttttcca ctcctgaaga ttcttccaaa ttaaccctgt   1260
ttaaatggaa atccagtaca tcgtgcacca atgcttgata tgtccaagta tgatgtaaag   1320
gagttgccaa atctatgttt ctgtcaacaa ggactaataa gggcctctgg aagctgaatt   1380
ggccagctcc aagtgtatca cctgtaaaaa gactgtttct tgcatctctt agattttctc   1440
gaagtttctt gtctagtttc actgctacca tttctgctgc tgttcctctt gaacatctga   1500
ttataggaac agcacccaga gtaacaaaaa agcagaagag gctgtcaact atagtgtcca   1560
taacagtttc catttccgtg tctgtgatat ctggcctgtt aatggcacga tatgaaacaa   1620
gctccttatt ttgattacat aatacaaaca tatcatcttc caaagtaata aaattgagat   1680
attggtcccc aaaccttggc tacttgtgtt acttgcactt aggccccgaa cgctggcatt   1740
tgcaatatct tccagtttac ttcttgaaat agcagaaata aaatttaaat aatatgattc   1800
atatagttga tttcgaagat cctggcacat tctgtcaata ttttcttcag ttggcattac   1860
aaagtatact gcaggaacat ctggaatagg atctcgatca gagtgtaaaa gcagatgcag   1920
agtgattccc atgtctctta gctccctcac agatagcaga ggagagatta tatcttggcc   1980
aaatctgtca taaatgagta ccttccatac tggttctcct gtgctgtttt taatatgagg   2040
cacattgaaa ttcaacatac gcttcaaagc cactgtctgc ctttcccgaa tactggctgc   2100
tgctgctgct gtcctgccgc cggccat   2127

<210> 6613
<211> 2372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (475)...(1855)
<223> similar to gi479173 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6613

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ctgcatttat acaaaaaagg gagggcaaag agcaaattgg tttcagctca aaacaattct       120
tacatgaaag tggcatattt tggggtagca tacactgatc ctcttcaaaa ggaataattt       180
gcttttctct tatcatggtt atgagagcta ctttgaatta atttttgctt tttgaaagta       240
catttaattc tcaaatgttt ctgcttttga atgcagtttg ggagagccca tggtgactgc       300
gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt cctgagaatg       360
attggggagg gctccttcgg cagagctctt ttggttcagc atgaaagcag taatcagatg       420
tttgccatga agaaataag gcttcccaag tctttctcta atacacagaa ttctaggaag       480
gaggctgttc ttttagccaa aatgaaacac cctaatattg ttgccttcaa agaatcattt       540
gaagctgaag gacacttgta tattgtgatg gaatactgtg atggagggga tctaatgcaa       600
aagattaaac agcagaaagg aaagttattt cctgaagaca tgatacttaa ttggtttacc       660
caaatgtgcc ttggagtaaa tcacattcac aagaaacgtg tgctacacag agatatcaag       720
tccaagaata tcttcctcac tcagaatgga aaagggaaat tgggagactt tggatctgcc       780
cgtcttctct ccaatccgat ggcatttgct tgtacctatg tgggaactcc ttattatgtg       840
cctccagaaa tttgggaaaa cctgccttat aacaataaaa gtgacatctg tccttgggt       900
tgcatcctgt atgaactctg tacccttaag catccatttc aggcaaatag ttggaaaaat       960
cttatcctca aagtatgtca agggtgcatc agtccactgc cgtctcatta ctcctatgaa      1020
cttcagttcc tagtcaagca gatgtttaaa aggaatccct cacatcgccc ctcggctaca      1080
acgcttctct ctcgaggcat cgtagctcgg cttgtccaga agtgcttacc ccccgagatc      1140
atcatggaat atggtgagga agtattagaa gaaataaaaa attcgaagca taacacacca      1200
agaaaaaaaa caaaccccag cagaatcagg atagctttgg gaaatgaagc aagcacagtg      1260
caagaggaag aacaagatag aaagggtagc catactgatt tggaaagcat taatgaaaat      1320
ttagttgaaa gtgcattgag aagagtaaac agagaagaaa aaggtaataa gtcagtccat      1380
ctgaggaaag ccagttcacc aaatcttcat agacgacagt gggagaaaaa tgtacccaat      1440
acagctctta cagctttgga aaatgcatcc atactcacct ccagtttaac agcagaggac      1500
gatagaggtg gttctgtaat aaagtacagc aaaaatacta ctcgtaagca gtggctcaaa      1560
gagacccctg acactttgtt gaacatcctt aagaatgctg atctcagctt ggctttttcaa      1620
acatacacaa tatatagacc aggttcacga agggttcttg aaaggccccc tgtctgaaga      1680
aacagaagca tcggacagtg ttgatggagg tcacgattct gtcattttgg atccagagcg      1740
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ctgggtgtca gagctgaaga agcgagctgg atggcaaggc ctgtgcgaca gataatgcct      1860
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atcatgagtt catgcgacgt atatttttcct ttggaaacag aatgaagcag aggaaactct      1980
taatacttaa aatcgttctt gattagtatc gtgagtttga aaagtctaga actcctgtaa      2040
gtttttgaac tcaagggaga aggtatagtg gaatgagtgt gagcatcggg ctttgcagtc      2100
ccatagaaca gaaatgggga tgcctagccg tgcccaccta ccctacttgt gtgattgtgg      2160
ggaaattacc ttaaccctct tcaagccccc aatttccctc aacccataaa atgaagataa      2220
taatgcctac ctcagaggga tgctgaccac agacctttat agcagcccgt atgatattat      2280
tcacattatg atatgtgttt attattatgt gactctttt tacatttcct aaaggtttga      2340
gaattaaata tatttaatta tgaaaaaaaa aa                                    2372
```

5266

<210> 6614
<211> 5427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3614)...(1002)
<223> similar to gi3043650 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6614
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cgcgatctcg gctcactgca agctccgctt cccgggttca cgccattctc ctgcctcagc     120
ctcccgagta gctgggacta caggcgcccg ccaccgcgcc cggctaattt tttgtatttt     180
tagtagagac ggggtttcac cttgttagcc aggatggtct cgatctcctg acctcatgat     240
ccacccgcct cggcctccca aagtgctggg attacaggcg tgagccaccg cgcccggcct     300
cttccctcct atcattttcg tgttctggag acagtagcat acttggccct gggtttgaca     360
taaaactagt tctacatata gaaagctagg gacaaaaatg agttctggac aaaactaaag     420
gactgaataa tcatgtgaaa cagcccaact ctccctaca tatgcctaag cactgatgaa     480
gtgtttcata tattcactca cctaaatttc acaacaatcc tatgaaatgc taactagcat     540
gatccccagt ttaaaggtga ggaaattgag tcacaggcag aataacttgc tctgggtcac     600
caagctaata aatagatctg ggttcaaacc caggcagcct ggctccggaa tcaactctta     660
accacttaga gcatcatcac tgagatcggg agagggacag gctgctgtaa agagggtgaa     720
gcgaaaatgg gaggagagca gcggttaagc aatgatgtga tggggctaaa taaaaatgga     780
tacaaaaacg agtaaaagac cagagtaaaa ggaaaagact ggagaagggg cctaacatta     840
aaagagaatg aggagaaggg agagttgaca agcaaaggtg aaagcagaaa gtcagttgtc     900
catatggctt ggggagataa agaaggccca ggaaggcctc caggaaaagg ctgccatgtc     960
aggcaggaca cagaggacaa ttgaggaaaa gtgattctta caagatggtg aaggtgccat    1020
tgtgggtgtt gggctctggc acaggcactt ggcggagcct ctgctctggg ttgagatcaa    1080
tacatgacaa catctcatct ccgcaggtac agagctcaca tatgttggtg cttgtggagg    1140
ccttgtgttc ctctggtgca gttaaagcct tattttgggt gtaactttca gactgcacca    1200
gtgaatcctg agcaggttct agttcagtag gtggacctgt gacttcagtc aggcttcgat    1260
gcagagtctg aacccggtct ggacgaggag ctgtagtctt ctccaggcct gtagaatgtc    1320
cagtctctgt agtgggttct ggaatgatgg caagtcccag gtctggaagt tgagttgagg    1380
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ctgaaggtgg aagtgtcacc tcagggtgtc ctggaggagg agctgtagtc atcagggctg    1560
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gtgacactgg atgctgagct tgatcctgac ctggtgttgg atttgttacc ccttgatata    1860
ctcgaagttg gggtacaact ttcttaggag gctgagttgg ggtctccttc atggttggag    1920
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ctgtggcttg agtcaggtgt gaatgctctg gaggttgagc tacaactaca ttaggaact     2040
ctggagtctg agctggggcc tcctgatggg ttagggaaga ctcaccctcc tcagcggtct    2100
gtggatgctc agctgcagcc tcctgctggg ttggagaggg gttctcatta ttaataggtt    2160
ccggagattt gaaatgaagt ctcctgttga actgctaaag gtccagcttc ttctgatgac    2220
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tctgaaagca gaggtgggcc cccgtgctgg atggcgggag gttctatatc attacctgac   2280
cctgagagcc gagttgtagc ctcctgctgg actagagaag ttcccacctc tgcactaggc   2340
tctgctgcta tggtgagctg cacgtctgga ggcttcacag agacactggg tgaatctaaa   2400
tgatgagttt gatggtgacc tggaggtgaa actgtgactt catgatgttc tggaggctga   2460
cctggggtct cctgctgggt cggagaagat tcgacctccc tagaagtctc agaaggctga   2520
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tcctgctggg tttgggaaga ttctgtctca ttggtaggct ctgaagttat ggtaacctcc   2700
acatctgcag gtttaactgt aatgttgggc aagtgataat aagcttgatc ctcacctgga   2760
ggttgaactg acacctcatg attcggtaga gttagactct ccatagagga ctctggaggc   2820
agagctgggg cctcctgctg cattgaagaa ggttcttcct caaggagctg tggaagctgt   2880
gctggggctt cttgttggag tgaagaggac tggatgtctt caagggtctc tggattttga   2940
gtttcgggct ctagatggaa ttgagaaggt ccaacttgct cagagggccc tggaggctca   3000
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tcagtcgatt cctggggtgg ggctggcatc tctgaggaag cagagggccc caggtgatca   3360
aagtcccacg ggtctgctgg gagagtaggc gcatggggag attcccgtgg gaaatgggag   3420
gagtgggaag accagggctc aggcggcccc aggggggttag aggtcagctg gagcgggtcc   3480
ttgacccact ccagaggctg agcctccttg actagtagcc acaatagttg ccacataagg   3540
aggggccatg ggccccagaa acgcagcggg gacatgacac acgctagtgc cgggcactga   3600
gcggaagtca ttctggcagc tccgagacgc tcgtgcccct tgtaagcatg agtcccgccc   3660
tgtctttatg acacctttat ttatgccaca gaactgctcc atgtcaccag ggcactctta   3720
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caccggacct cgcctcagga tattcagaag tgctagttca gttctggcag ccttcctcct   3960
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cgccaggatg tacattacag tcatttattc caaagtgttg ccattttcgc taaactgtcg   4080
catgtttgat aattaattca ccaccctatt aggtaggggc tgccagggaa taagcgagga   4140
ctccaaattt tctgtaggag gggtgttggg agttggcaat tcggtctggg agagaaggtt   4200
ttaatccgag tgaagagccc tttgcactag cctgggagga ggctgaactg tcatcctgcc   4260
ttgactcaac acagccattc ccctagaagt tacagcactt ctagggtcac ctgtgttcag   4320
agatctaccc tgtgtgcaca catggagaag aggcttaggt tgttaaagtc agcatgttaa   4380
atcatttcct gaaatgcgac tgtaactaga acccagctga cttcccccac agccgttctt   4440
acctatttta ttactgtctg gcataattac cagcatgtaa actccaagaa ggtgcttcat   4500
cttattttag tgcctggcat agacataggg tgcatagtga tggctttaaa attgaagggg   4560
ggccgggcgc agtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggtgga   4620
tcacgaggtc aggagatcga gaccatcctg gctaacaagg tgaaaccccg tctctactaa   4680
aaatacaaaa aattagccgg gcgcggtggc gggcgcctgt agtcccagct actcgggagg   4740
ctgaggcagg agaatggcgt gaacccggga ggcagaggtt gcagtgagcc gagatcacaa   4800
cactgcactt cagcctgggc aacaagagag aaactccatc tcaaaaaaat aaaataaaat   4860
aaaatggaag agattccaag attcacctca tttagggatg gagctattat tataatcaga   4920
tttctgaaat gagtgctgac ttcctctcac atttcacagg aagctagact tcttaaagct   4980
tgaagtctcc ttggtgggtt ttatttaaat tgaattaaaa taattatttt acaggaaaa   5040
atttcaaaac actttgcaac tttggggtaa aagttaaata aaacactgta gccccaagtt   5100
aagttcccac tgaaatgata cttttgctcc tttttttaaa aaaaattcca taaatagtaa   5160
ataatgactg ttttgagatt aatttagaaa caatccctat ttaagagctt tcatatgcag   5220
tcatgcattg cttgccacgt gaggagcttg agaaatgggt cactaggtta tttcaccatt   5280
gtgctaatat catagcgtat acttacacaa acctaggtgg tgtagccacc ataccataggg   5340
tacacggtat ggcttaggac tcctaggcta caaacctgta ctgtatgtta ctgtactgaa   5400
tactaaaggc aactgtcaca gaatggc                                       5427
```

5268

<210> 6615
<211> 2785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (167)...(2245)
<223> similar to gi4235226 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6615
```
tttcgtcacc cacgttggcc tcccaaagct ctgggattac agatgtgagc cactgcgccc     60
tgctggagta ttttcgatcc aagagaacat cgtggacatt atgtagcagc ttccagcctt    120
ctttctcata gaaacaaagg cagagaagca gcacccagac tttgggaatg ttccatttgg    180
ctgctgcact cccatccacc ctgtgtacac atcctccaga ggcgatcacc tcggctgttg    240
ggctctgagg cccgagtgcc ttcgcatagt gtcgagagcg ccatggacct ctacctctgt    300
gggttttgtg gctgtgggac ctcagtgcct tcctgtgcgt ggcctggcac tcttcgcgcc    360
ctgttcgcga tgactcggta gtagagaagt ccctcaagtc cttgaaggac aagaacaaga    420
agctggagga aggcggcccg gtgtacagcc ccccgcaga ggtggtggtg aagaagtccc     480
tggggcagcg ggtgctggac gagctgaagc actactacca tggcttccgc ctgctatgga    540
tcgacaccaa gatcgcggca cgcatgctct ggcgcatcct caacggccac agcctgaccc    600
gccgggagcg caggcagttt ctccggatct gcgctgacct cttccgcctg gtgccgttcc    660
ttgtgttcgt ggtggtgccg ttcatggagt ttctgctgcc tgttgctgtg aagctcttcc    720
ccaacatgtt gccatccaca tttgagactc agtcactcaa ggaggagagg ctgaagaagg    780
agcttcgggt caagctggag ctggccaagt cctccagga caccatcgag gagatggcct     840
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tccgggaaac aggggagagg cccagcaatg aggaaatcat gcgttttttcc aaattatttg    960
aggatgagct gaccctggac aacctgacac ggccgcagct ggtggccctg tgcaagctgc   1020
tggagctaca gtccatcggc accaacaact tcctgcgctt ccagcttacc atgcggctgc   1080
gctccataaa ggcagacgac aagctgattg ctgaggaagg ggtggacagc ctgaatgtca   1140
aggagctgca ggcagcgtgt cgggcacgag gcatgcgggc cctgggcgtc acggaagacc   1200
gcctgagggg tcagctgaag cagtggctgg acctgcacct gcatcaggag atccccacat   1260
cgctgctcat cctgtcccgg gccatgtacc tcccggacac cctctctcca gccgaccagc   1320
tcaagtccac actgcagacc ctcccagaga ttgtggcaaa ggaagcacag gtgaaagtgg   1380
ccgaggtgga gggcgagcag gtggacaaca aggccaagct ggaggccacg ctgcaggagg   1440
aggcggccat ccagcaggag caccgtgaga aggagctgca gaagcgctcg gaggtggcga   1500
aggattttga gcccgaacgt gtggtagctg ctccccaaag gccggggacc gagccacagc   1560
cagaaatgcc tgacacagtc ctgcagtcag agaccttgaa ggacactgcc ccggtgctgg   1620
agggcttgaa ggaggaagag atcacgaagg aggaaatcga catcctcagc gatgcctgct   1680
ctaagctgca ggagcagaag aagtcactca ccaaggagaa ggaggagctg agctgctga    1740
aggaggatgt gcaggactac agcgaggact tgcaggagat caagaaggaa ctttcaaaga   1800
ctggtgaaga aaaatacgtg gaagaatcta agccagcaa gagattgaca aaaagggtgc    1860
agcaaatgat cgggcagatc gatggcttga tctcgcagct ggagatggac cagcaggctg   1920
gcaagctggc cccggccaac ggcatgccca cggggggagaa cgtcatcagt gtcgctgagc   1980
tcatcaacgc catgaagcaa gtcaagcaca ttcccgaaag caagctcacc agcctggccg   2040
cagcactgga tgaaaacaag gatggcaagg tcaacatcga cgacctcgtc aaggtgattg   2100
agctggtgga caaagaagat gttcacatct ccaccagcca ggtggctgag attgtagcaa   2160
cactggaaaa agaggagaag gtggaggaga aggagaaggc caaagagaag gcagagaagg   2220
aggtcgcaga ggtgaagagc tagaaccact ggcctgggca cctgtcctcc tgctgtgccg   2280
tcaccctggc aagggccgtg agggcgattg ctttgtggtg attctcagtg gctcatctaa   2340
tattttggct ggaataaatc agagacttcc ataatcaagt aaattttaat tttcatcatt   2400
```

```
ccatggagat tcagtctgtc tggaatcccg gaaccccctcc acagaatcgt gtctggatcc      2460
acactgtggt gtggctgcca cggcctcctg gctccagagg cagctgggcc gggccaaggc      2520
aggaaggcgc ccccatgtgt gtggcctcag tctcagcatc tgactgtgct gccctgtccc      2580
cagggaagag aatgaggacc acgtggactt gttcgcagtg ggtcccggtg ctggcaggag      2640
tgtgctggtg agccggctct gtctttgtaa atccttcagg ggtcctacgg ctgactccac      2700
acggacagcc cgtcctgggc cgtgttaagc accttttgta gaaatcgtat ttttattaaa      2760
acatcaaatc tgtgttcctg taaaa                                            2785
```

<210> 6616
<211> 5200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (101)...(2689)
<223> similar to gi307121 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6616
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gacgtgggcc ccgagtgcaa tcgcgggaag ccagggtttc cagctaggac acagcaggtc        60
gtgatccggg tcgggacact gcctggcaga ggctgcgagc atggggccct ggggctggaa       120
attgcgctgg accgtcgcct tgctcctcgc cgcggcgggg actgcagtgg gcgacagatg       180
cgaaagaaac gagttccagt gccaagacgg gaaatgcatc tcctacaagt gggtctgcga       240
tggcagcgct gagtgccagg atggctctga tgagtcccag gagacgtgct tgtctgtcac       300
ctgcaaatcc ggggacttca gctgtggggg ccgtgtcaac cgctgcattc ctcagttctg       360
gaggtgcgat ggccaagtgg actgcgacaa cggctcagac gagcaaggct gtccccccaa       420
gacgtgctcc caggacgagt ttcgctgcca cgatgggaag tgcatctctc ggcagttcgt       480
ctgtgactca gaccgggact gcttggacgg ctcaaacgag gcctcctgcc cggtgctcac       540
ctgtggtccc gccagcttcc agtgcaacag ctccacctgc atcccccagc tgtgggcctg       600
cgacaacgac cccgactgcg aagatggctc ggatgagtgg ccgcagcgct gtaggggtct       660
ttacgtgttc caaggggaca gtagcccctg ctcggccttc gagttccact gcctaagtgg       720
cgagtgcatc cactccagct ggcgctgtga tggtggcccc gactgcaagg acaaatctga       780
cgaggaaaac tgcgctgtgg ccacctgtcg ccctgacgaa ttccagtgct ctgatggaaa       840
ctgcatccat ggcagccggc agtgtgaccg ggaatatgac tgcaaggaca tgagcgatga       900
agttggctgc gttaatgtga cactctgcga gggacccaac aagttcaagt gtcacagcgg       960
cgaatgcatc accctggaca aagtctgcaa catggctaga gactgccggg actggtcaga      1020
tgaacccatc aaagagtgcg ggaccaacga atgcttggac aacaacggcg ctgttccca       1080
cgtctgcaat gaccttaaga tcggctacga gtgcctgtgc cccgacggct ccagctggt       1140
ggcccagcga agatgcgaag atatcgatga gtgtcaggat cccgacacct gcagccagct      1200
ctgcgtgaac ctggagggtg gctacaagtg ccagtgtgag gaaggcttcc agctggaccc      1260
ccacacgaag gcctgcaagg ctgtgggctc catcgcctac ctcttcttca ccaaccggca      1320
cgaggtcagg aagatgacgc tggaccggag cgagtacacc agcctcatcc ccaacctgag      1380
gaacgtggtc gctctggaca cggaggtggc cagcaataga atctactggt ctgacctgtc      1440
ccagagaatg atctgcagca cccagcttga cagagcccac ggcgtctctt cctatgacac      1500
cgtcatcagc agagacatcc aggcccccga cgggctggct gtggactgga tccacagcaa      1560
catctactgg accgactctg tcctgggcac tgtctctgtt gcggataccca agggcgtgaa      1620
gaggaaaacg ttattcaggg agaacggctc caagccaagg gccatcgtgg tggatcctgt      1680
tcatggcttc atgtactgga ctgactgggg aactcccgcc aagatcaaga aaggggcct       1740
gaatggtgtg gacatctact cgctggtgac tgaaaacatt cagtggccca atggcatcac      1800
```
```
                                      5270
```

```
cctagatctc ctcagtggcc gcctctactg ggttgactcc aaacttcact ccatctcaag    1860
catcgatgtc aatggggca accggaagac catcttggag gatgaaaaga ggctggccca    1920
cccccttctcc ttggccgtct ttgaggacaa agtattttgg acagatatca tcaacgaagc    1980
cattttcagt gccaaccgcc tcacaggttc cgatgtcaac ttgttggctg aaaacctact    2040
gtccccagag gatatggtcc tcttccacaa cctcacccag ccaagaggag tgaactggtg    2100
tgagaggacc accctgagca atggcggctg ccagtatctg tgcctccctg ccccgcagat    2160
caacccccac tcgcccaagt ttacctgcgc ctgcccggac ggcatgctgc tggccaggga    2220
catgaggagc tgcctcacag agggttgagg ctgcagtggc cacccaggag acatccaccg    2280
tcaggctaaa ggtcagctcc acagccgtaa ggacacagca cacaaccacc cggcctgttc    2340
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tgtctcacca agctctgggc gacgttgctg gcaagaggaa attgagaaga agcccagtag    2460
cgtgagggct ctgtccattg tcctccccat cgttgctcct cgtcttcctt tgcctggggg    2520
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ccgtctatca gaagaccaca gaggatgagg tgcacatttg ccacaaccag gacggctaca    2640
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gagaagacca aagcattgcc tgccagagct ttgtttata tatttattca tctgggaggc    2820
agaacaggct tcggacagtg cccatgcaat ggcttgggtt gggatttttgg tttcttcctt    2880
tcctcgtgaa ggataagaga aacaggcccg gggggaccag gatgacacct ccatttctct    2940
ccaggaagtt ttgagtttct ctccaccgtg acacaatcct caaacatgga agatgaaagg    3000
gcaggggatg tcaggcccag agaagcaagt ggctttcaac acacaacagc agatggcacc    3060
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agtcaacgtg tttacctctt ctatgcaagc cttgctagac agccaggtta gcctttgccc    3180
tgtcaccccc gaatcatgac ccacccagtg tctttcgagg tgggtttgta ccttccttaa    3240
gccaggaaag ggattcatgg cgtcggaaat gatctggctg aatccgtggt ggcaccgaga    3300
ccaaactcat tcaccaaatg atgccacttc ccagaggcag agcctgagtc actggtcacc    3360
cttaatattt attaagtgcc tgagacaccc ggttaccttg gccgtgagga cacgtggcct    3420
gcacccaggt gtggctgtca ggacaccagc ctggtgccca tcctcccgac ccctacccac    3480
ttccattccc gtggtctcct tgcactttct cagttcagag ttgtacactg tgtacatttg    3540
gcatttgtgt tattattttg cactgttttc tgtcgtgtgt gttgggatgg gatcccaggc    3600
cagggaaagc ccgtgtcaat gaatgccggg gacagagagg ggcaggttga ccgggacttc    3660
aaagccgtga tcgtgaatat cgagaactgc cattgtcgtc tttatgtccg cccacctagt    3720
gcttccactt ctatgcaaat gcctccaagc cattcacttc cccaatcttg tcgttgatgg    3780
gtatgtgttt aaaacatgca cggtgaggcc gggcgcagtg gctcacgcct gtaatcccag    3840
cactttggga ggccgaggcg ggtggatcat gaggtcagga gatcgagacc atcctggcta    3900
acaaggtgaa accccgtctc tactaaaaat acaaaaaatt agccgggcgt ggtggcgggc    3960
acctgtagtc ccagctactc gggaggctga ggcaggagaa tggtgtgaac ccgggaagcg    4020
gagcttgcag tgagccgaga ttgcgccact gcagtccgca gtctggcctg ggcgacagag    4080
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gaggctgtcg tgagctatga ttatgccact gctttccagc ctgggcaaca tagtaagacc    4260
ccatctctta aaaatgaat ttggccagac acaggtgcct cacgcctgta atcccagcac    4320
tttgggaggc tgagctggat cacttgagtt caggagttgg agaccaggcc tgagcaacaa    4380
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ggaggttgca gtgagccatg atcgagccac tgcactccag cctgggcaac agatgaagac    4560
cctatttcag aaatacaact ataaaaaat aaataaatcc tccagtctgg atcgtttgac    4620
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agcacgtaaa tgcgtccctg tacagatagt ggggattttt tgttatgttt gcactttgta    4860
tattggttga aactgttatc acttatatat atatatatat atacacacat atatataaaa    4920
tctatttatt tttgcaaacc ctggttgctg tatttgttca gtgactattc tcggggccct    4980
gtgtagggggg ttattgcctc tgaaatgcct cttctttatg tacaaagatt atttgcacga    5040
actggactgt gtgcaacgct ttttgggaga atgatgtccc cgttgtatgt atgagtggct    5100
tctgggagat gggtgtcact tttaaaccca ctgtatagaa ggttttgta gcctgaatgt    5160
cttactgtga tcaattaaat ttcttaaatg aaccaaaaaa                           5200
```

5271

```
<210> 6617
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (85)...(421)
<223> similar to gi2829129 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6617
cttggcacga ggagctgagc ctgacccagc aggtcccagc agcctggcag cccggccagc     60
atgcagcagc agcctctgcc cgggcctggc gcccccacaa ctgagccaac caagcctccc    120
tacagctaca tcgcccttat tgctatggcc atccagagct caccggggca gcgggccacc    180
ctcagtggca tctaccgcta catcatgggc cgattcgcct tctaccgcca caaccggccc    240
ggctggcaga acagcatccg ccacaacctg tcactcaacg agtgctttgt caaggtgccc    300
cgcgatgacc gcaagccagg caagggcagc tactggacgc tggaccctga ctgccacgac    360
atgtttgagc acgggcagct tcctacgccg ccgccgccgc ttcacccggc agacaggtgc    420
tgagggcacc cggggccccg ccaaggcacg ccgtggaccc ctcaaggcga ccagccagga    480
cccaggagtc cccaacggca cgagcgggca gcagtgctca ttcccaa                  527




<210> 6618
<211> 5869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (435)...(3330)
<223> similar to gi34083 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6618
caggagtgat cgggcagcag tcggccggcc agcggacggc agagcgggcg gacgggtagg     60
cccggcctgc tcttcgcgag gaggaagaag gtggccactc tcccggtccc cagaacctcc    120
ccagcccccg cagtccgccc agaccgtaaa gggggacgct gaggagccgc ggacgctctc    180
cccggtgccg ccgccgctgc cgccgccatg gctgccatga tggatcggaa gtgagcatta    240
gggttaacgg ctgccggcgc cggctcttca agtcccggct ccccggccgc ctccaccggg    300
ggaagcgcag cgcggcgcag ctgactgctg cctctcacgg ccctcgcgac cacaagccct    360
caggtccggc gcgttccctg caagactgag cggcggggag tggctcccgg ccgccggccc    420
cggctgcgag aaagatggcg gacctggccg agtgcaacat caaagtgatg tgtcgcttca    480
```

```
gacctctcaa cgagtctgaa gtgaaccgcg gcgacaagta catcgccaag tttcagggag    540
aagacacggt cgtgatcgcg tccaagcctt atgcatttga tcgggtgttc cagtcaagca    600
catctcaaga gcaagtgtat aatgactgtg caaagaagat tgttaaagat gtacttgaag    660
gatataatgg aacaatattt gcatatggac aaacatcctc tgggaagaca cacacaatgg    720
agggtaaact tcatgatcca gaaggcatgg gaattattcc aagaatagtg caagatattt    780
ttaattatat ttactccatg gatgaaaatt tggaatttca tattaaggtt tcatattttg    840
aaatatattt ggataagata agggacctgt tagatgtttc aaagaccaac ctttcagttc    900
atgaagacaa aaaccgagtt ccctatgtaa aggggtgcac agagcgtttt gtatgtagtc    960
cagatgaagt tatggatacc atagatgaag gaaaatccaa cagacatgta gcagttacaa   1020
atatgaatga acatagctct aggagtcaca gtatatttct tattaatgtc aaacaagaga   1080
acacacaaac ggaacaaaag ctgagtggaa aactttatct ggttgattta gctggtagtg   1140
aaaaggttag taaaactgga gctgaaggtg ctgtgctgga tgaagctaaa aacatcaaca   1200
agtcactttc tgctcttgga aatgttattt ctgctttggc tgagggtagt acatatgttc   1260
catatcgaga tagtaaaatg acaagaatcc ttcaagattc attaggtggc aactgtagaa   1320
ccactattgt aatttgctgc tctccatcat catacaatga gtctgaaaca aaatctacac   1380
tcttatttgg ccaaagggcc aaaacaatta agaacacagt ttgtgtcaat gtggagttaa   1440
ctgcagaaca gtggaaaaag aagtatgaaa agaaaaaga aaaaaataag atcctgcgga   1500
acactattca gtggcttgaa aatgagctca acagatggcg taatggggag acggtgccta   1560
ttgatgaaca gtttgacaaa gagaaagcca acttggaagc tttcacagtg gataaagata   1620
ttactcttac caatgataaa ccagcaaccg caattggagt tataggaaat tttactgatg   1680
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atgaagaaat taaccagcaa agtcaactgg tagagaaact gaagacgcaa atgttggatc   1800
aggaggagct tttggcatct accagaaggg atcaagacaa tatgcaagct gagctgaatc   1860
gccttcaagc agaaaatgat gcctctaaag aagaagtgaa agaagttta caggccctag   1920
aagaacttgc tgtcaattat gatcagaagt ctcaggaagt tgaagacaaa actaaggaat   1980
atgaattgct tagtgatgaa ttgaatcaga aatcggcaac tttagcgagt atagatgctg   2040
agcttcagaa acttaaggaa atgaccaacc accagaaaaa acgagcagct gagatgatgg   2100
catctttact aaaagacctt gcagaaatag gaattgctgt gggaaataat gatgtaaagc   2160
agcctgaggg aactggcatg atagatgaag agttcactgt tgcaagactc tacattagca   2220
aaatgaagtc agaagtaaaa accatggtga aacgttgcaa gcagttagaa agcacacaaa   2280
ctgagagcaa caaaaaaatg gaagaaaatg aaaaggagtt agcagcatgt cagcttcgta   2340
tctctcaaca tgaagccaaa atcaagtcat tgactgaata ccttcaaaat gtggaacaaa   2400
agaaaagaca gttggaggaa tctgtcgatg ccctcagtga agaactagtc cagcttcgag   2460
cacaagagaa agtccatgaa atggaaaagg agcacttaaa taaggttcag actgcaaatg   2520
aagttaagca agctgttgaa cagcagatcc agagccatag agaaactcat caaaaacaga   2580
tcagtagttt gagagatgaa gtagaagcaa aagcaaaact tattactgat cttcaagacc   2640
aaaaccagaa aatgatgtta gagcaggaac gtctaagagt agaacatgag aagttgaaag   2700
ccacagatca ggaaaagagc agaaaactac atgaacttac ggttatgcaa gatagacgag   2760
aacaagcaag acaagacttg aagggtttgg aagagacagt ggcaaaagaa cttcagactt   2820
tacacaacct gcgcaaactc tttgttcagg acctggctac aagagttaaa aagagtgctg   2880
agattgattc tgcatgacac cggaggcagc gctgctcaga agcaaaaaat ctcctttctt   2940
gaaaataatc ttgaaccagc tcactaaaag tgcacaaacc agttggtacc gtgataatgc   3000
agatctccgc tgtgaacttc ctaagttgga aaagcgactt cgagctacag ctgagagagt   3060
gaaagctttg gaatcagcac tgaaagaagc taaagaaaat gcatctcgtg atcgcaaacg   3120
ctatcagcaa gaagtagatc gcataaagga agcagtcagg tcaaagaata tggccagaag   3180
agggcattct gcacagattg ctaaacctat tcgtcccggg caacatccag cagcttctcc   3240
aactcaccca agtgcaattc gtggaggagg tgcatttgtt cagaacagcc agccagtggc   3300
agtgcgaggt ggaggaggca aacaagtgta atcgtttata catacccaca ggtgttaaaa   3360
agtaatcgaa gtacgaagag gacatggtat caagcagtca ttcaatgact ataacctcta   3420
ctcccttggg attgtagaat tataactttt aaaaaaaatg tataaattat acctggcctg   3480
tacagctgtt tcctacctac tcttcttgta aactctgctg cttcccaaca caactagagt   3540
gcaattttgg catcttagga gggaaaaagg acagtttaca actgtggccc tatttattac   3600
acagtttgtc tatcgtgtct taaatttagt ctttactgtg ccaagctaac tgtaccttat   3660
aggactgtac tttttgtatt ttttgtgtat gtttatttt taatctcagt ttaaattacc   3720
tagctgctac tgcttcttgt ttttctttc ctattaaaac gtcttccttt tttttctta   3780
agagaaaatg ggaacattta ggttaaatgt ctttaaattt taccacttaa caacactaca   3840
tgcccataaa atatatccag tcagtactgt attttaaaat cccttgaaat gatgatatca   3900
```

5273

```
gggttaaaat tacttgtatt gtttctgaag tttgctcctg aaaactactg tttgagcact    3960
gaaacgttac aaatgcctaa taggcatttg agactgagca aggctacttg ttatctcatg    4020
aaatgcctgt tgccgagtta ttttgaatag aaatatttta aagtatcaaa agcagatctt    4080
agtttaaggg agtttggaaa aggaattata tttctctttt tcctgattct gtactcaaca    4140
agtcttgatg gaattaaaat actctgcttt attctggtga gcctgctagc taatataagt    4200
attggacagg taataatttg tcatctttaa tattagtaaa atgaattaag atattatagg    4260
attaaacata attttatacg gttagtactt tattggccga cctaaattta tagcgtgtgg    4320
aaattgagaa aaatgaagaa acaggacaga tatatgatga attaaaaata tatataggtc    4380
aattttggtc tgaaatccct gaggtgtttt taacctgcta cactaatttg tacactaatt    4440
tatttcttta gtctagaaat agtaaattgt ttgcaagtca ctaataatca ttagataaat    4500
tattttcttg gccatagccg ataattttgt aatcagtact aagtgtatac gtatttttgc    4560
cactttttcc tcagatgatt aaagtaagtc aacagcttat tttaggaaac tgtaaaagta    4620
atagggaaag agatttcact atttgcttca tcagtggtag gggggcggtg actgcaactg    4680
tgttagcaga aattcacaga gaatggggat ttaaggttag cagagaaact tggaaagttc    4740
tgtgttagga tcttgctggc agaattaact ttttgcaaaa gttttataca cagatatttg    4800
tattaaattt ggagccatag tcagaagact cagatcataa ttggcttatt tttctatttc    4860
ccgtaactat tgtaatttcc acttttgtaa taattttgat ttaaaatatg aaatttattt    4920
atttattttt ttaatagtca aaaatctttg ctgttgtaat ctgcaacctc taaaatgatt    4980
gtgttgcttt taggattgat cagaagaaac actccaaaaa ttgagatgaa atgttggtgc    5040
agccagttat aagtaatata gttaacaagc aaaaaaagtg ctgccacctt ttatgatgat    5100
tttctaaatg gagaaacatt tggctgcatc cacatagacc tttatgtttt gttttcagtt    5160
gaaaacttgc ctcctttggc aacattcgta aatgaagcag aatttttttt tctctttttt    5220
ccaaatatgt tagttttgtt cttgtaagat gtatcatggg tattggtgct gtgtaatgaa    5280
caacgaattt taattagcat gtggttcaga atatacaatg ttaggttttt aaaaagtatc    5340
ttgatggttc ttttctattt ataatttcag actttcataa agtgtaccaa gaatttcata    5400
aatttgtttt cagtgaactg cttttttgcta tggtaggtca ttaaacacag cacttactct    5460
taaaaatgaa aatttctgat catctaggat attgacacat ttcaatttgc agtgtctttt    5520
tgactggata tattaacgtt cctctgaatg gcattgatag atggttcaga agagaaactc    5580
aatgaaataa agagaatatt tattcatggc gattaattaa attatttgcc taacttaaga    5640
aaactactgt gcgtaactct cagtttgtgc ttaactccat ttgacatgag gtgacagaag    5700
agagtctgag tctacctgtg gaatatgttg gtttattttc agtgcttgaa gatacattca    5760
caaatacttg gtttgggaag acaccgttta attttaagtt aacttgcatg ttgtaaatgc    5820
gttttatgtt taaataaaga ggaaaatttt ttgaaatgta aaaaaaaaa               5869
```

<210> 6619
<211> 2639
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (150)...(1335)
<223> similar to gi192382 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6619
```
tataaaagct gggccggcgc gggccgggcc attcgcgacc cggaggtgcg cgggcgcggg     60
cgagcagggt ctccgggtgg gcggcgcgac gccccgcgca ggctggaggc cgccgaggct    120
cgccatgccg ggagaactct aactcccca tggagtcggc cgacttctac gaggcggagc    180
cgcggccccc gatgagcagc cacctgcaga gccccccgca cgcgcccagc agcgccgcct    240
```

```
tcggctttcc ccggggcgcg ggccccgcgc agcctcccgc cccacctgcc gccccggagc    300
cgctgggcgg catctgcgag cacgagacgt ccatcgacat cagcgcctac atcgacccgg    360
ccgccttcaa cgacgagttc ctggccgacc tgttccagca cagccggcag caggagaagg    420
ccaaggcggc cgtgggcccc acgggcggcg gcggcggcgg cgactttgac tacccgggcg    480
cgcccgcggg ccccggcggc gccgtcatgc ccggggggaga gcacgggccc ccgcccggct    540
acggctgcgc ggccgccggc tacctggacg gcaggctgga gcccctgtac gagcgcgtcg    600
gggcgccggc gctgcggccg ctggtgatca agcaggagcc ccgcgaggag gatgaagcca    660
agcagctggc gctggccggc ctcttccctt accagccgcc gccgccgccg ccgccctcgc    720
acccgcaccc gcacccgccg cccgcgcacc tggccgcccc gcacctgcag ttccagatcg    780
cgcactgcgg ccagaccacc atgcacctgc agcccggtca ccccacgccg ccgcccacgc    840
ccgtgcccag cccgcacccc gcgcccgcgc tcggtgccgc cggcctgccg ggccctggcg    900
agcgcgctca aggggctggg cgccgcgcac cccgacctcc gcgcgagtgg cggcagcggc    960
gcgggcaagg ccaagaagtc ggtggacaag aacagcaacg agtaccgggt gcggcgcgag   1020
cgcaacaaca tcgcggtgcg caagagccgc gacaaggcca agcagcgcaa cgtggagacg   1080
cagcagaagg tgctggagct gaccagtgac aatgaccgcc tgcgcaagcg ggtggaacag   1140
ctgagccgcg aactggacac gctgcggggc atcttccgcc agctgccaga gagctccttg   1200
gtcaaggcca tgggcaactg cgcgtgaggc gcgcggctgt gggaccgccc tgggccagcc   1260
tccggcgggg acccagggag tggtttgggg tcgccggatc tcgaggcttg cccgagccgt   1320
gcgagccagg actaggagat tccggtgcct cctgaaagcc tggcctgctc cgcgtgtccc   1380
ctcccttcct ctgcgccgga cttggtgcgt ctaagatgag ggggccaggc ggtggcttct   1440
ccctgcgagg aggggagaat tcttggggct gagctgggag cccggcaact ctagtattta   1500
ggataacctt gtgccttgga aatgcaaact caccgctcca atgcctactg agtaggggga   1560
gcaaatcgtg ccttgtcatt ttatttggag gtttcctgcc tccttcccga ggctacagca   1620
gacccccatg agagaaggag gggagcaggc ccgtggcagg aggagggctc agggagctga   1680
gatcccgaca agccgccag ccccagccgc tcctccacgc ctgtccttag aaagggggtgg   1740
aaacataggg acttggggct tggaacctaa ggttgttccc ctagttctac atgaaggtgg   1800
agggtctcta gttccacgcc tctcccacct ccctccgcac acaccccacc ccagcctgct   1860
ataggctggg cttcccccttg gggcggaact cactgcgatg ggggtcacca ggtgaccagt   1920
gggagccccc accccgagtc acaccagaaa gctaggtcgt gggtcagctc tgaggatgta   1980
tacccctggt gggagaggga gacctagaga tctggctgtg gggcgggcat gggggggtgaa   2040
gggccactgg gaccctcagc cttgtttgta ctgtatgcct tcagcattgc ctaggaacac   2100
gaagcacgat cagtccatcc cagagggacc ggagttatga caagctttcc aaatattttg   2160
ctttatcagc cgatatcaac acttgtatct ggcctctgtg ccccagcagt gccttgtgca   2220
atgtgaatgt gcgcgtctct gctaaaccac cattttattt ggttttgtt ttgtttttggt   2280
tttgctcgga tacttgccaa aatgagactc tccgtcggca gctgggggaa gggtctgaga   2340
ctcccttttcc ttttggtttt gggattactt ttgatcctgg gggaccaatg aggtgaggg   2400
ggttctcctt tgccctcagc tttccccagc ccctccggcc tgggctgccc acaaggcttg   2460
tcccccagag gccctggctc ctggtcggga agggaggtgg cctcccgcca acgcatcact   2520
ggggctggga gcagggaagg acggcttggt tctcttcttt tggggagaac gtagagtctc   2580
actctagatg ttttatgtat tatatctata atataaacat atcaaagtca aaaaaaaaa   2639
```

<210> 6620
<211> 990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (291)...(679)
<223> similar to gi5830442 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

```
      <400> 6620
gagacagggt ccaggctgga gtccagtcgc gtgatcacag ctcactgcag cctttacctc        60
ctgggccaaa gtgaatcttc ccttctcagc ctcccaagta gctggactat ggcacacacc       120
acaacacctg gctaattttt tgaaattttt tgtagagatg gggatattgc tgtattgccc       180
aggctggtct cgaactcctg ggctcaagca atcctcctgc cttggctcct caaagtgctg       240
ggattatagg tataagccac ctctcccagc caaaaccccc tcttttatag atgagatatt       300
tgctccaagt tgcacagctg gtttggctct tgactgtaga ttccagaggc attggtggaa       360
cacttgatca tgctggcttc agcatctgca tgttgacctg caggcatgca agcttctttg       420
gcctctgtga agcacagact ttctgcggtc tgagtgcatc taagtctcct gctcttctcc       480
acagatacta tggagggact gagtttattg atgaactgga gaccctctgt cagaagcgag       540
ccctgcaggc ctataagctg gacccacagt gctggggggt caacgtccag ccctactcag       600
gtgcttgtct catccatatg gcctggtgca gcctcttcat gtgcatcccc cagggccgac       660
atgcaccaag aagagtccta agatggactg ccatggactg ccataggccg ggcccagtgg       720
ctcacgcctg taatcccagc actttgggag gcggaggcag gcagaccacc tgaggccggc       780
agttcaagac cagcctgacc aacatggaga aacccggtct ccactaaaaa tacaaaaatt       840
agctgggtgt agtggcacat gcctgtaatc ccagctactc ggagcctgag gcaggagaat       900
tgcttgaacc tgggaggcgg aggttgcagt gagctgccga gatggcgcca ttgcattcca       960
gcctgggcaa caagagcgaa actccatctc                                         990




      <210> 6621
      <211> 1887
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (327)...(142)
      <223> similar to gi299471 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




      <400> 6621
gtggcgtgtg cttgtaatct cagctacttg ggaggctgag acaggagaat tgcttgaacc        60
cgggaggtgg aggttgcagt gagccaagat catgccactg cactccagcc tgggtgacgg       120
agcaatactc catctggagg aaaagaaaaa gcaagcaagc caggtgtgat ggcaggcacc       180
tgtggtctca gctactcggg aggctgagac aggagaatca cttgaacccg gggggtggag       240
actgcagtga gccgagatcg caccattgca ctctggcctg ggctggcctg gatgatgagc       300
aaaactctcc cccccaaaaa aaaatcccag tccgttacac ggtagctttg gggaattatt       360
tttaaaattt ttaattgttc ttgctgtctc cctttgaagt gactagtact ctggtgagtt       420
aatctgctac atctcagcta aaccagtcaa agttcagaaa atctaggcag gagccacctg       480
tagttatctc accattgttt ctccaggtgc agttagagcg gatccggcaa gctgactcct       540
tggagagaat ccgggcaatt ctgaatgata ctaaactgac agacattaac cagcttcctg       600
agacatgaca ccctcatggc aggattctag cctgcacttt gggtttttaa ctcatcttta       660
gagcaacagt aattattatt taactcttaa ctgaagaaag agaagtcaca acaaaaggaa       720
gactggagaa atgcttactt ctagagggag aagactgtgc ggcacaggaa acagcaaaca       780
gtggggtgat ctgcagccca gagaccttca aatgcgaaca ctataaactc caggcttgat       840
tccaacaggc gtgggatcag atttggtgat ggaaaaagcg ctgtttcctt gcctgctttc       900
tccaagacag attttcggaa cacatttccc taccctaaag cgacatccca gtagtgtttg       960
gaattttctg ttcatagata ttggaagaga gaatttgctt tatctgttgt ctagagctca      1020
```

```
tcagtaacag tattcagtta gcagacagaa gtgtagtatg ctgtatgaat attttatatt     1080
aaaatatgaa ggtttgagag caggccattg gctactgact gtatttccct tgctcagtac     1140
attttttgttt tccttttacc attttatctt atcttgcttt ggaggacctt aaatgctact    1200
gaaacttacc tgagaaccat aggactgtgg caaacaaaac caattcatga agtgaattaa     1260
tgatgaggat ctgaaaactt ggctggggct atatatactg gaagttgaag gttaaaggaa     1320
aagcacaaga aactttggaa gcactttttc tgcatactta gatgatcttc atgggcccac     1380
agggtaccag gataaagccg aactggtacc atctactctt ttgaagtgtt ttagtctagt     1440
tattggatca gtgaaaaaca ttagtatacg tttttaaata ggctaatttt tcaacttgga     1500
tcattaggct tacgtactac ttgtttcaaa tgtgtcaaat acaaaaatgg taactaggtt     1560
gacagatact ttgtattttt cttttgaatt cagacctgga atgtaagtaa gtgacaatgc     1620
ttatggaaag ccagttagtt agaattggaa atctgtcttg tcattttaca agcattagat     1680
tcctttcctg tgtgaagaaa gcctcagtga aacaggtctt tgccataact ttatgaagtg     1740
ctacagaaag cacaaagaat tgattcatgt tcatcaatac ctgctgagag tactgtccca     1800
ggaatatcca gtggatggat tcatcatcca gggaggttca aaagtaagat ggttttcaaa     1860
tcatttttga gactggttgc ataacac                                         1887
```


        <210> 6622
        <211> 821
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (606)...(522)
        <223> similar to gi4008584 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6622

```
cagaggtctt ccaaaggcta ttcagaagca gaaattgaat actggcagct cactgacagt      60
attttgaaaa tgttttacaa ttaagtctcc taaatttaac aaagagattt cacactaaaa     120
cctagatttc tagcatggct tgggaaattg taagatttgg gtccatgttc ccgcatagca     180
acaattggct gaagctgagt ggatgcaact tctgcaagac ggcatgtgtt ctcctgtgtg     240
ctttctctag tttgctccaa tccccacatc cccttgtctt ctataccagt tcgtcttggt     300
cttgaaggtg tctagtttgc tggcatggcc taaagctttc attagtggca gggggactgg     360
gttctgggag gggtgccatg cccgaggagg gtggcagtga gcccaaaagg gaagagcatt     420
cataacttgg tgagtgacga tgatgctgag tgcctggcct gagaggagca gctggctcaa     480
gggaagacgt gctgagcaca gtcagcccgg gtacgttctt ggtatgggtg gagcaggtgg     540
atctgcctgt cctgtgggcg gtggaaattc cagtctggaa cttgtcgggg agatgggtct     600
ggagaataga gatttgcttc caaggaggta ataggcccat ggcatccagg gagagggccc     660
tggatgacag gatgctgag gggctgaggg gttcaaaata tggagatgac aggcaaggaa      720
ggaagggaag gaggatgagg gcagagcaca ggagtaaagc tatggggggcc aagggaagca    780
agaccttgag gggccagtgg ttaactggta gaatcagttc a                        821
```


        <210> 6623
        <211> 4541
        <212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (375)...(3989)
<223> similar to gi5689523 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6623
gtcggattcg ctcgaggatc acctccagga gcactgatgc cccttcacaa agcactggag   60
atcgaaagac tgggagtgtt ggatcttggg gtgcagctag ggggccttct ggaactgaca   120
cagtctctgg acaaagcaat tctggaaaca atgggaacaa tggaaaagag agagaggact   180
cctggaaagg agcttctgtt cagaaatcaa ctgggtcaaa aaatgactct tgggacaaca   240
ataacaggtc tacgggtggg tcctggaact ttggccccca ggactctaat gacaacaaat   300
ggggtgaagg gaacaaaatg acatctgggg tctctcaggg agaatggaaa cagccgactg   360
ggtctgatga gttgaaaatt ggagaatgga gtggtccaaa ccaaccaaat tctagcactg   420
gagcatggga caatcaaaag ggccacccccc tccttgaaaa ccaaggcaat gcccaggctc   480
cctgttgggg aagatcttcc agctccacag gaagtgaagt tgaaggtcaa agcactggaa   540
gcaaccacaa agcaggaagt agtgacagtc ataactctgg ccgtcggtcg tacaggccca   600
cacatcctga ttgtcaggct gtcttgcaga ctcttttgag ccgaactgat ttggaccccca   660
gggtgctctc aaacactggc tggggccaaa ctcaaattaa gcaggacaca gtgtgggaca   720
ttgaagaggt gccaaggcct gaggggaaat ctgacaaagg aactgagggg tgggagagcg   780
ctgccacaca gaccaagaac tcaggggggct ggggagatgc acccagccaa agcaatcaaa   840
tgaagtctgg atggggggag ctctcagcct ctacagagtg gaaagacccc aagaacacag   900
gaggctggaa tgactacaag aacaacaact cttccaactg gggaggagga cgacctgatg   960
aaaagacacc ttcctcttgg aatgagaatc ccagcaagga tcaggggtgg ggaggtggac 1020
gccagcccaa tcaaggatgg tcttctggaa agaatggttg gggggaggaa gtcgatcaga 1080
caaaaaacag caattgggaa agttctgcaa gtaaacctgt gtctgggtgg ggtgaaggag 1140
ggcagaatga aatcgggact tggggtaatg gtggcaatgc aagcctagct tcaaaaggtg 1200
ggtgggagga ttgcaaaaga tccccagcat ggaatgagac gggccgacag cccaattcct 1260
ggaataaaca acaccaacag cagcagcccc cacagcagcc gccgccacca caaccagagg 1320
cttctggttc gtggggaggc ccaccccccac cacctccagg caacgttcga ccttccaatt 1380
ccagctggag cagcgggcca cagcctgcaa cacctaagga tgaggaaccc agtggttggg 1440
aagagccatc cccacagtca attagtcgga aaatggacat tgatgatggc acttcagcat 1500
ggggagaccc taacagttat aactacaaga atgtgaatct gtgggataag aattcccaag 1560
ggggcccagc acctcgagaa ccaaacctgc ccaccccaat gaccagtaaa tcggcatcag 1620
attccaaatc tatgcaagac ggctggggggg agagtgacgg gccagtcaca ggagctcgcc 1680
atcccagctg ggaagaggag gaggatggag gagtctggaa caccactggc tctcagggca 1740
gtgcttcctc ccacaactca gcaagctggg gacaaggagg aaagaaacaa atgaagtgct 1800
cactcaaagg aggaaacaat gattcatgga tgaatcctct tgccaaacag ttttcaaata 1860
tgggattgct gagtcagact gaagataatc caagcagcaa aatggatttg tctgtaggaa 1920
gcctttcaga taaaaaattt gatgtggaca agcgagcgat gaatctcggg gatttttaatg 1980
atatcatgag gaaggatcga tctgggttcc gtccacctaa ttccaaagac atgggaacca 2040
cagatagtgg gccttatttt gagaaggggcg gtagtcatgg tttgtttgga aacagcacag 2100
cacaatcgag aggtctgcac acacccgtgc agccactaaa ttcttctccc agtctccggg 2160
cgcaagtgcc tccccagttt atttcccccc aggtttctgc ctcaatgctc aagcagtttc 2220
ccaacagtgg cctgagtcca ggtcttttca atgtggggcc ccagttatct cctcaacaaa 2280
ttgccatgct gagccagctt ccacaaattc cccagtttca gttggcatgt cagcttctct 2340
tgcagcagca gcaacagcag cagttgttac agaaccagag aaagatttct caagctgtac 2400
gccaacagca agagcagcag ctggctcgaa tggtgagtgc actgcagcag cagcagcagc 2460
agcagcagag gcagccaggc atgaagcact cgccctctca tcctgttggg cccaagccgc 2520
atctggacaa catggtaccc aacgcattga atgtggggct cccagacctt caaaccaaag 2580
ggccaatacc tggatatggt tctggtttca gctctggcgg catggactat ggcatggttg 2640
gtgggaagga ggctggaacc gagtctcgct ttaaacagtg gacctccatg atggagggggc 2700

5278

```
tgccctctgt agccacacag gaagccaata tgcacaaaaa tggcgctata gtggcccctg    2760
gtaaaacccg gggagggtca ccgtacaacc agtttgatat catccctggt gacacactgg    2820
gtggccatac gggtcctgct ggtgatagct ggttacctgc caaatctcca ccaacaaata    2880
aaatcggaag taaatccagc aatgccagtt ggcctccaga attccaacca ggagtgccat    2940
ggaaaggtat ccaaaacatt gaccctgaat ctgaccccta tgtcacccca ggaagtgtgc    3000
tggggggtac agccacatct cccattgtag atactgacca ccaactgctg cgggataaca    3060
ccacagggtc taattcttcc ctcaacacct cgctgccttc acctggtgcc tggccctaca    3120
gtgcctctga caactccttt accaacgttc atagcacttc agcaaagttc cctgattaca    3180
aatcaacatg gtccccagat cccataggac acaaccccac tcatctctcc aacaagatgt    3240
ggaaaaacca tatttcctcc aggaacacta caccgctgcc ccgcccacct cctggtctga    3300
ccaaccccaa accatcatct ccctggagca gcacagcacc ccgatcagtc aggggtgggg    3360
ggacacagga ctcacggctc gcctcggcct ctacctggag tgatggtggc tcagttcgtc    3420
ctagttactg gctggttctt cacaatctca ccccacagat tgatgggtca accttgagaa    3480
cgatctgcat gcagcatggg cccactggct gacattccat ctggaatcta acccagggca    3540
ctgccctgat ccgatacagc accaaacagg aggcggccaa ggcccaaact gcactgcaca    3600
tgtgtgtgtt gggaaacact accatccttg ctgagtttgc cactgatgat gaagtcagcc    3660
gctttctggc acaagctcag ccccctacac ctgcagcaac cccaagtgcg ccagctgcgg    3720
ggtggcagtc gctggagacc ggccagaacc agtcagatcc cgtgggacct gctctgaatc    3780
tttttggtgg gtccactggg ctcgggcagt ggagcagcag cgctggtggc agcagcgggg    3840
ccgatcttgc tggcgcttca ttgtgggggc ccccaaacta ttcttctagc ttatggggag    3900
tcccaacggt ggaagatccc cataggatgg gcagccctgc tcctttacta cctggtgacc    3960
ttctgggagg agggtcggat tcaatctgaa cttagaactt tcaactctga cctcgtgacc    4020
tttttggaa cagcagcagc actaacttga ccttttcgtt tttttttca acttgcaata    4080
aatacatttt taaaaggaaa aaagaaaacg gagagaaaaa aaggggggtc attgacagac    4140
tgtctgagca catagttgcc tcccttataa cttcagtttt ttcgtttgga atatgaatcc    4200
aaaaagagaa catatcactc ttgaaatact tgaatcatga acgccaccct tggaaaggcc    4260
aatgtgaagc aagtacacat acccatttaa atttaaacac aaaaaaatta aaaaaaatta    4320
gtttctagtt tttcactttt ttcatgttat atggaagttg ttgctaagaa acatatatac    4380
tgaaaaaaaa tagctttta actttgtttg cactggggtg tgtttccgtc cttaggtcta    4440
ccatgtttgg gagggaggga aattcaaaag aattgttggg ggaggggga gggaagactt    4500
gacggagcct cactttaaaa acaaaaacac aaaaaaccta a                       4541
```

<210> 6624
<211> 2569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (384)...(1767)
<223> similar to gi5931610 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6624
```
tttttgcacc tagaaatttt aggcaagtga tagctgcgta atcatactgc ggcaccgttt      60
ttttcttgca gcagtagctg cttgcggagg aggtctgccc actgcagctc tctgcagtct     120
ccggctctct cctgcaggat cggtcaacgc agccgtcgcc gccctctgca cccagcccag     180
gtcgccactg cttcagtccg gttctcaaag cctcagcacc atctttatc cccgagcagc      240
ctggatcgtc gttccctcag tccggacgcc actgctaggt ccgaccaccg ccgcttctga     300
tatttcggtg agtcttttcc tgtggaggtt tggtctcccg atctctgtgg tagccacctt     360
```

5279

```
aggcgtgtac ggtcctttga aaaatggccg agtcagagaa ccgcccaaga gctgtcagaa    420
tcccagtcaa gaagaggctg gtaatcagat aatggtggaa gggctcgggg aacatctgga    480
gcgcggtgaa gatgccgctg ctgggcttgg agacgatggg aagtgcggtg aagaagctgc    540
cgctgggctt ggggaagaag gggaaaacgg tgaagatact gctgctgggt ccggggaaga    600
tgggaaaaaa ggtggcgata ctgatgagga ctcagaggca gaccgtccaa aaggacttat    660
cggttatgtt ttagatacag actttgttga aagtctacct gtgaaagtta agtaccgtgt    720
gttagccctt aaaaagcttc aaactagagc ggccaattta gaatccaaat tcctgaggga    780
atttcatgac attgaaagaa agtttgctga aatgtaccaa cccttactgg aaaaaagacg    840
tcagatcatc aatgcaatct atgaacctac agaagaggaa tgtgaatata aatcagactc    900
tgaggactgt gatgatgagg aaatgtgtca tgaagagatg tatggtaatg aggagggtat    960
ggtacatgaa tatgtggatg aggacgatgg ttatgaggac tattattatg attatgctgt   1020
ggaagaggag gaggaggagg aggaggagga cgacattgag gctactggag aagagaataa   1080
agaagaggag gatcctaagg gaattcctga tttttggcta actgtttttaa aaaacgttga   1140
tacactcact cctttgatta aaaaatatga tgagcctatt ctgaagctcc tgacagatat   1200
taaagttaag cttttcagatc ctggcgagcc cctcagtttc acactagaat ttcacttcaa   1260
acccaatgaa tatttcaaaa atgagttgtt gacaaagacc tatgtgctga agtcaaagct   1320
agcatattat gatccccatc cctataggg aactgcgatt gagtattcca caggctgtga   1380
gatagattgg aatgaaggaa agaatgtcac tttgaaaacc atcaagaaca aacagaaaca   1440
tcggatctgg ggaacaatcc gaactgtaac tgaagatttt cccaaggatt cattttttcaa   1500
tttttttctct cctcatggaa tcacctcaaa tggaagggat ggaaatgatg attttttact   1560
tggtcacaat ttacgtactt acataattcc aagatcagta ttattttct caggtgatgc   1620
actggaatct cagcaggagg gggtagttag agaagttaat gatgcaattt atgacaaaat   1680
tatttatgat aattggatgg ctgcaattga ggaagttaaa gcttgttgca aaaaccttga   1740
ggcattagta gaagacattg atcgttagag cagagtatac atggccctga aattaactgc   1800
cctagatata gttactcaag gtataagaag ccttgtgttc tgtatttttc ttgtagtgtt   1860
agttaaaaca tatgtttcaa aaatataaga aaagttcaaa aactaattaa tttgaccttg   1920
agttttagta gtagaatgtt ttcaagaaat gtacactgtg gtaaatgatt taaaacacta   1980
gtatagtgtt gtgtagctta atccttctga agtctttttg tcatgtagct attaatctgt   2040
ggctatgaaa tgatcagaaa tgctaagtga gatcaatatt tgtttggaaa aaaaatcttg   2100
ggaaacaacc caagggtttt cgctgttgtt gtttttcttt ttctattttt gtttacttag   2160
tcctttagct agtggatta attttgttgt gcctgcttca ttttgcaata acaatgcagt   2220
agaatttaaa acttggatgc ttaagaggcc tgcatataga taagaatttc aggcaaaact   2280
acattattg ttaataacag cttgttcata ggctcttgta ttttatgtaa ctgtgataaa   2340
taatgaaact tagttatatt gaggttattg tttgtcggtg aagtgttagt cacagtattt   2400
tcaaaagttt gcacatattg ttctgtgtaa ttgtgtaagc cataattaca gtgtttaatt   2460
ctcttttcct attacatcat tcattgaaag tgatcacttt accattttga aaagatattt   2520
cgtgttcttt cactgcaaaa taaaaagaat aaaaatttca aaaaaaaaa               2569
```


<210> 6625
<211> 1569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (489)...(1045)
<223> similar to gi1770468 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6625

5280

```
ggcacgaggg aggcttcacc ctcatgacct catccaaccc taattacctc gtaaagaccc     60
cacctccaca caccatcaca ttgaagatta gggcttcaac atgtatgttt ggtgtggggg    120
cgggggggcaa gatacagaca tttagtccat agcactgtat gtcttaaaat tattgtttaa    180
ggcaccgttc acctctggaa aaggattctt cacctggaag ttcatcaaca agcttgttga    240
taaaaaagca aagagagact tcagacacgc cgatcatgag agctttaaaa gaacttgatg    300
agggaaaaat atttaaaaat tggggggacac agacagagaa agaggacacc tcaaatataa    360
atcctcggca aactgaaact tcagttaatg caagtcgttc tccagaaaag tgtgcccaac    420
agagacaaaa gagacttaat tcggcctcac agagatcatc atctttacca ccttcaaatc    480
gtaaatcaag tactccaaca aaaagagaga ttatgctaac accagtgact gtggcttata    540
gtccaaagcg atcccctaaa gaaaacttgt ccccaggatt tagtcatctg cttagcaaaa    600
atgagagcag tccaattcga tttgatatac ttttggatga tttagatact gttcctgtgt    660
ctacattaca acgtaccaat ccaagaaagc aacttccagt ttcttcctct agatgactcg    720
gaagaaaaaa acttattctg agaaagccac ccgataacat tgttaatcat agctcttgcc    780
ctgaaccggt gccaaatgga gtgaagaaag tatctgtgag aacagcctgg gagaagaata    840
aatcagttag ctacgaacag tgtaagccgg tttcagtcac tccacagggg aatgattttg    900
aatatacagc aaaaattcgg accctagctg aaacagaacg attttttga tgaacttaca    960
aaagaaaagg accagattga ggcagcacta agcaggatgc cttctcctgg aggacggatc   1020
actttacaga caaggttaaa tcaggaagcc tttggaagat cgtttggaaa ggattaatcg   1080
agaactgggg ttcagttcgc atgacgctaa agaaattcca tgtttttgcgc acctctgcaa   1140
atcttcgaga ttcgtagcca ttaaattttg agacatttt gtttgcacta atgtataatt   1200
atgcagtcag aaaaggcaaa ctattttgta ctgtttataa gccttcaaac agtagtttta   1260
caatcatgct attcttacac ttgctatttt atacttcaaa tagccacata ttttcaagat   1320
attttgtta tgctcaggaa tctcttgtat attttactat ttaaaaagca ttatttttaa   1380
atagtatctg tctccaattt atatcaagaa taggaaata taaacagagg aagcagcttg   1440
tttctaaaca aatagtgtta tcctttttaca attaactgca catcaatttt atagacttgt   1500
tctacattgt aaatacaatt cagtttttaa aaaataaagc ttactagctt cacataaatg   1560
aaaaaaaaa                                                          1569
```

<210> 6626
<211> 987
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(714)
<223> similar to gi1943772 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6626
```
tttcgtggag gtaagtggct atagaagtcg ggcggacccg gaacccagag gacgcgacac     60
catgacttat gcttatctct tcaagtatat catcatcgga gacacaggtg tggggaagtc    120
atgtctcctc ctgcagttta cagataagcg gttccagcct gtccacgacc tcacaatagg    180
tgtggagttt ggagctcgta tggtcaacat tgatggaaaa caaatcaaac tgcaaatctg    240
ggatacggct gggcaagaat ccttccgttc tatcacccgt tcctactaca ggggagcagc    300
tggagcactg ctggtgtacg acattacaag gcgtgaaacc ttcaaccacc tgacctcatg    360
gttagaggat gcccggcagc actctagttc caacatggtt atcatgctca ttgggaataa    420
gagtgaccta gagtcccgca gggatgtgaa gagagaagaa ggagaggcct ttgctaggga    480
gccatggact tatattcatg gaaacttcag ccaaaacagc ctgcaatgtt gaagaggcct    540
tcattaacac agccaaagaa atatatagga agatccagca gggtttattt gatgtccaca    600
```

5281

```
atgaggcaaa tggcatcaag attgggcccc aacagtcaat ttcaacatca gtgggaccca    660
gtgcctccca gcggaactct cgtgacatag ggtccaactc tggctgctgc tgaacatctg    720
gcttgaactt tttttgtcct tcctggaata gcttcagatc aataggctta atgaaagagg    780
tctttcttgc tttggctgag agcagcctct ttttaaagtg tgatgttttg cctttccacc    840
taaagaccag gagagaattt gggcccttac tgacctgtcc tccttcaggg acatgagcat    900
tccctataga ttaggggttct tcttatcctc ctatacaaat ttcttaaatt gttaggatca    960
aagttgatta tcacagtagt taaaaaa                                        987
```


<210> 6627
<211> 1493
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (84)...(1374)
<223> similar to gi2564320 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6627
```
tttcgtggca cgtgaggagg aggtggcttg aggcaaccat ggcgggagga atgaaagtgg     60
cggtctcgcc ggcagttggt cccgggccct ggggctcggg agtcgggggc ggtgggacag    120
tgcggctact cttgatcctc tccggctgct tggtctacgg cacagctgaa actgatgtaa    180
atgtggtcat gcttcaggaa tcccaagttt gtgaaaagcg tgccagccaa caattctgtt    240
acacaaatgt gcttatccca caatggcatg atatatggac acggatacag atccgagtaa    300
atagttccag attggttcga gtcacccagg tggagaatga ggagaaactg aaggagctag    360
agcagtttag tatctggaac ttttttttcct ccttttttaaa agagaaattg aatgacacct    420
atgttaacgt gggtctatac agcacaaaaa cctgcctcaa agttgagatt atagagaagg    480
acaccaagta cagtgtcatt gtgatccgga gatttgatcc caaactcttt cttgttttcc    540
ttcttggact tatgctattt ttttgtggag acttgctgag cagaagtcaa attttctact    600
actctactgg gatgactgtg ggaattgtgg cctctctggc taatcatcat ttttatacta    660
tctaagttta tgcctaagaa aagtcccatt tacgtcatcc tggtgggagg ctggtctttt    720
tctctgtacc tcattcaact agtttttaaa aatttacaag agatctggag gtgttactgg    780
cagtatcttt taagttatgt cctcacagtt ggattcatga gtttgcagt atgttacaag     840
tatgggccct tggagaatga acgaagtatc aacctgctga cctggacctt gcagctgatg    900
ggcctgtgtt tcatgtattc tggcatccag ataccacata ttgcccttgc cattatcatc    960
attgctcttt gtactaagaa cctggaacac cctattcagt ggctgtacat cacctgcaga   1020
aaggtgtgta agggagcaga aaagcctgtt cccctcgtc tcctgacaga agaagaatat   1080
cggatacaag gagaggtaga aacccgaaag gctttagagg agctccgaga attttgtaac   1140
agtccagact gctctgcttg gaagactgtt tctcgaatcc agtctccaaa aagatttgct   1200
gactttgtgg aaggctcttc ccacctcacg ccaaatgaag tttctgtcca tgagcaggag   1260
tatggattag ggagcattat tgcccaggat gaaatctatg aggaagcatc ctctgaggag   1320
gaggactcat attctcggtg tcctgctatc acacagaaca actttctaac ctaggtagtg   1380
gtcagttatc tttacgtgga ctggcttggt gccttggtcc atgttgcatg tgttgtgcaa   1440
ttgctttcaa ccctttgaaa cagagtgaga tagacagggt attgaagctc atg          1493
```


                                    5282
```

<210> 6628
<211> 2360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (244)...(1463)
<223> similar to gi4929563 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6628
```
ggcgtccccg ccacgtttcc ggcgaccgca ggcgcggatt ccttggcttc cctcagcact   60
ttcccctccg cgcggacggc cccgagacgc tttttcactg ggccttgtcg ccagcacccg   120
gcgtggggga tgtgtagttg gtgactgcct ctccagatgc tgaggtgcct gtatcattgg   180
cacaggccag tgctgaaccg taggtggagt aggctgtgcc ttctgaagca gtatctattc   240
acaatgaagt tgcagtctcc cgaattccag tcacttttca cagaaggact gaagagtctg   300
acagaattat ttgtcaaaga gaatcacgaa ttaagaatag caggaggagc agtgagggat   360
ttattaaatg gagtaaagcc tcaggatata gattttgcca ccactgctac ccctactcaa   420
atgaaggaga tgtttcagtc ggctgggatt cggatgataa acaacagagg agaaaagcac   480
ggaacaatta ctgccaggct tcatgaagaa aattttgaga ttactacact acggattgat   540
gtcaccactg atggaagaca tgctgaggta gaatttacaa ctgactggca gaaagatgcg   600
gaacgcagag gatctcacta taaattctat gtttttaggt tttgatggca ctttatttga   660
ctactttaat gggttatgaa gatttaaaaa ataagaaagt tagatttgtt ggacatgcta   720
aacagagaat acaagaggat tatcttagaa ttttaagata cttcaggttt tatgggagaa   780
ttgtagacaa acctggtgac catgatcctg agactttgga agcaattgca gaaaatgcaa   840
aaggcttggc tggaatatca ggagaaagga tttgggtgga actgaaaaaa attcttgttg   900
gtaaccatgt aaatcatttg attcacctta tctatgatct tgatgtggct ccttatatag   960
gtttacctgc taatgcaagt ttagaagaat ttgacaaagt cagtaaaaat gttgatggtt 1020
tttcaccaaa gccagtgact cttttggcct cattattcaa agtacaagat gatgtcacaa 1080
aattggattt gaggttgaag atcgcgaaag aggagaaaaa ccttggctta tttatagtta 1140
aaaataggaa agatttaatt aaagcaacag atagttcaga cccattgaaa ccctatcaag 1200
acttcattat agattctagg gaacctgatg caactactcg tgtatgtgaa ctactgaagt 1260
accaaggaga gcactgtctc ctaaaggaaa tgcagcagtg gtccattcct ccatttcctg 1320
taagtggcca tgacatcaga aaagtgggca tttcttcagg aaaagaaatt ggggctctat 1380
tacaacagtt gcgagaacag tggaaaaaaa gtggttacca aatggaaaaa gatgaacttc 1440
tgagttacat aaagaagacc taaaactgat ggctactaaa aagcagagca tttctggtaa 1500
gactaaattt tctcccctcc ctcttaatga ggttttagag actacaccag aataaaagac 1560
agtttagggg acctctgtag aacaacaagg gtcttatttt gtgaattata tatttcaaga 1620
actaaacaga gatccacctt tctggatctg atttatatca ctgaaatgta cagttctttt 1680
ggaatagttt cacctgagaa aacatagttg gctattatct atcttaacct gttcaggctt 1740
ttaaaaaaaa ctgttttgc atagggtagt actaagatct taaaaagtgg taactgtctt 1800
gaagaaaaaa cgtttattgt ttgtttgcaa ttgaaataac agggttacct taacaatgac 1860
tgtctatgat gtgtcagttc ttatctgaat tccaaaataa acctgtgctt aaaaaagaaa 1920
taattgacca agtaagtttg cataaaatgt gaatactaaa tgtgtcccca gttgctggca 1980
ttcatatgta caggatttgt tctagcaagc tatgcttcag tatgtggttg atattttct   2040
gtcacaatga tttctttatg catgcagagc ctgggaaagt catgggatta acttgagggt 2100
cactattgag cctattaatt aattaattat tgtttaata aaacaaacat tggtattgga 2160
agataaatat gtttatgtgg tatctgacaa tgtgtattag gtgtcatata caatggtaat 2220
atgcctgtct ttaaagtgtt attttattaa ttaaaggat atcggctatt attatatatt 2280
ctctaaagaa agatttattc tctaaagatt tgagtcctaa atgctttcat caggtaaata 2340
aaatgtataa tacaaaaaaa   2360
```

<210> 6629
<211> 4211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (433)...(2515)
<223> similar to gi4836765 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


        <400> 6629
tttcgtggag gcgacagatg gaggctgagg aagcagagtg atccccggcc ccttcctgtc      60
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gggagcctcc cacgctctcc agctcactcg gcaggcagcg gggaccaggg ctggcaggtt     180
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```

<210> 6630
<211> 2213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2214)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (142)...(1400)
<223> similar to gi416017 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

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ctggcattcc gcggaaagat ggtattccca ctttcctgtg cggtgcagca gtatgcctgg     180
gggaagatgg gttccaacag cgaagtggcg cggctgttgg ccagcagtga tccactggcc     240
cagatcgcag aggacaagcc ttatgcagag ttgtggatgg ggactcaccc ccgaggggat     300
gccaagatcc ttgacaaccg catctcacag aagaccctaa gccagtggat tgctgagaac     360
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gccattgccc tcaccccctt ccagggcttg tgtggcttcc ggccagttga ggagattgta     600
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5286

<400> 6631
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ggcgagatgc taccagccgg cgagatcggc gcctctcctg cagccccgtg ctgctctgaa     180
agtggtgacg aaaggaagaa cctcgaggag aaaagtgaca taaatgttac agttcttatt     240
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ttcatagaaa aggaagttgg aaatgacctt aaatctttaa agaaacttga taaactcata     360
gaacagagga cagtaagtaa aatgcagtta gaagaacagg tacttacaat ttcatcagaa     420
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cagtttctgg agcaggaaac tcatctcttc agcgccatta acagccattt gctgactgcg     540
caaccttgga tggacgatct tggaaccatg attagccaga ttgaagagat cgaacgtcat     600
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ctgatgacca ataatgtacc ggaggcagcc tccactctag tgtctatggc agaacttgac     720
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5287

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<210> 6632
<211> 3854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (222)...(2524)
<223> similar to gi1296664 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


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gcaaagcgga ggctgcgacg ggtcctgcag ggggacagtg aggaaagggc cgcctcgtct     180
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5288

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tcacttttac ctttaaagtt tacttgtagc aaatatgttt acattgataa agccagatat    3600
gttttgacaa tgaaatttac atatcaagta ctgcaaataa aaggtggtgc tatgatatat    3660
gcttaggagg acagttttaa tgattgtact tgcatgaaca caatcatatg atggtaaagc    3720
agaaacttaa gaaaaaattg tttatgtgtt atattcaatt agcttaaata agttgctttg    3780
ttatattta tttgaattga actacgctag gcctaaatgc caataaaata tacttttcac    3840
tgttaaaaaa aaaa                                                       3854
```

```
        <400> 6633
tgctcaaatg ttttctaaag tgtagaacat tatccattag tgggatataa agtaaataca      60
ttcaaatatt gattttaaag aatgtcttga ccaaattttt taaagaaaaa atatataaaa     120
taaaaagtat cagagtacat tatactcagt aaggataaaa tattatttca tgcgctggcc     180
atgctggtct tggtggtttc gccgtggtct gcggcccggg gagtgcttcg aaactactgg     240
gagcgactgc tacggaagct tccgcagagc cggccgggct ttcccagtcc tccgtgggga     300
ccagcattag cagtacaggg cccagccatg tttacagagc cagcaaatga taccagtgga     360
agtaaagaga attccagcct tttggacagt atcttttgga tggcagctcc caaaaataga     420
cgcaccattg aagttaaccg gtgtaggaga agaaatccgc agaagcttat taaagttaag     480
aacaacatag acgtttgtcc tgaatgtggt cacctgaaac agaaacatgt cctttgtgcc     540
tactgctatg aaaaggtgtg caaggagact gcagaaatca gacgacagat agggaagcaa     600
gaagggggcc ctttttaaggc tcccaccata gagactgtgg tgctgtacac gggagagaca     660
ccgtctgaac aagatcaggg caagaggatc attgaacgag acagaaagcg accatcctgg     720
```

                            5289

```
ttcacccaga attgacaccc aaagatgtta aaaggataac ttcacagtaa atcatttctc      780
ctgaaataga ggaagattct ttacgttgtt gtgcttgttt ttaaatcatc agtatagttt      840
aacacattct ttctaagcag ttttgtgtgg gataatttga agaatatatt atgagtaaac      900
tccgaaaatt ttgtttatcc aaaggcttca atggattatg tttctattat atacaaggtt      960
ttaagtaaac ataaaatttc cagaacaaaa ataaaaaatt taaaattcat aacaaaaaaa     1020
aaa                                                                   1023
```

```
        <210> 6634
        <211> 1157
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (99)...(939)
        <223> similar to gi3559980 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6634
ctccacttca tggagcctgc acctcgctcg tgctccaacg cttctgccac cgccgaccac       60
ggccctgcgc cccagccagg cctgaggaca tgaggcggcc ggcggcggtg ccgctcctgc      120
tgctgctgtg ttttgggtct cagagggcca aggcagcaac agcctgtggt cgccccagga      180
tgctgaaccg aatggtgggc gggcaggaca cgcaggaggg cgagtggccc tggcaagtca      240
gcatccagcg caacggaagc cacttctgcg ggggcagcct catcgcggag cagtgggtcc      300
tgacggctgc gcactgcttc cgcaacacct ctgagacgtc cctgtaccag gtcctgctgg      360
gggcaaggca gctagtgcag ccgggaccac acgctatgta tgcccgggtg aggcaggtgg      420
agagcaaccc cctgtaccag ggcacggcct ccagcgctga cgtggccctg gtggagctgg      480
aggcaccagt gcccttcacc aattacatcc tccccgtgtg cctgcctgac ccctcggtga      540
tctttgagac gggcatgaac tgctgggtca ctggctgggg cagccccagt gaggaagacc      600
tcctgcccga accgcggatc ctgcagaaac tcgctgtgcc catcatcgac acactcaagg      660
tgcaacctgc tctacagcaa agacaccgag tttggctacc aacccaaaac catcaagaat      720
gacatgctgt gcgccggctt cgaggagggc aagaaggatg cctgcaaggg cgactcggcc      780
ggcccctgg  tgtgcctcgt gggtcagtcg tggctgcagg cggggggtgat cagctggggt      840
gagggctgtg cccgccagaa ccgcccaggt gtctacatcc gtgtcaccgc ccaccacaac      900
tggatccatc ggatcatccc caaactgcaa gtccaaccca gcgaggttgg cgggccagaa      960
gtgacacccc cggggccagg agcccttga gcagagctct gcacccagcc tggccgccca     1020
caccatcctg ctggtcctcc cagcgctgct gttgcacctg tgagccccac cagactcatt     1080
tgtaaatagc gctccttcct cccctctcaa ataccttat tttatttatg tttctcccaa      1140
taaaaaccca gcctgtg                                                    1157
```

```
        <210> 6635
        <211> 4242
        <212> DNA
        <213> Homo sapiens

        <220>
```

<221> misc_feature
<222> (3683)...(2192)
<223> similar to gi5102630 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6635
```
tttttttttt ttttacaaat attaaaaatg tgattttttaa taatataagt acaaaatttt      60
atttctttat acaactgtaa tgggatttgg atcaaaccac tagaatttat ttaaaaaaac     120
aaaataaaac aatgatataa aaactgcaag aaggtctgaa tccaaagttt ttcctctaat     180
agtaccaaat accacaaggg tccagattat tatacaaatg tgtacaaatt ttaaatacaa     240
atacaatagg gctgggtttc aaaggaaaac aaacaaaaag caggtccctc catccaggat     300
ttcattaatg gtatatgatt ggacaatgct aggggtttaa tgtcttccta tactaaccat     360
gtcttccccg cccctcctag ataccctgtg tcaaacaggg aaacttccca cagatacaga     420
agaggcatgg tacaatgttc taacacatga aatcaagtta agatttctgt tcctcttgat     480
tttggttctc aaacaatcct gtttctctgt attcccaatt aaatcttaaa actgctctga     540
gctgagaaag ggattcagca gccagactac ctttaagcaa catagccctg tgacaacact     600
ggtggggaga agggaagaaa ttaaatagga tgcagatggg ctacactgtc cccaaagatt     660
tactttgatg ctgtagtgct ctgtcagggc caggagaaga aagcacagtt aactcagagc     720
ttggtgttgg cagagaatct cataccaaat ttaaaaacca tcctgaagtg ctcaactgtc     780
ttctttccaa ctgggaaaca aacgtctggt tctctggaaa taagggcagc tggggatggt     840
aacattcctc tttatttttac tttctagaca ttattgaagc ccatgaagtt ctttataaag     900
aattagaatc ctaacacaat gattcatttt tgaggtaaaa taccttaaac tgtagatgat     960
tcagagtttt tggaacagac caggaggaag gaaggaaaga gggaaggaaa cagggaagga    1020
aggaaggaaa gaagggaggg cggaagggag aaatgacaaa tctgtatctt ccacatgctg    1080
ttgctggtgg aggctaactc ttgttagatg gtacatccag aaatgagcag gataaaatta    1140
aaatctaaga gattttaaag agttaaatac acataattaa aatacacatt cacacacaca    1200
taaataaacc tacaagagag tgagtttgt tttgtttttg caattcactt acatgtggaa    1260
tgcagaacac tgtgtatctg cccaccaggg gaactgataa gatgaaccca aaaatcatgc    1320
tgggcaaagt ttatccataa ccaccgagca actaagcagc acggcttgtg aggacttggt    1380
ggctaacttc atgctgccag tgaaagacac cagcacttaa ttaagaagac taaagattct    1440
gggttagctc agaatgtatg gaggtccaac tggtggcatt gacagcttca ccccccaagg    1500
tgttttttgc tgcccagggc tcaccagaac tcccttggc ctctgttgga ggccaccaat    1560
ggtacccaat gattacaata aattttgaga cacagacacc tatacagtag gaattggaat    1620
gaaccctcta ctcaattcac ctaagccacc tccgtaacta taaagggaac aaattttatc    1680
acctcccacc taggtcactt caaattgaaa ggctttgaat tttcagtcaa ctggcatctt    1740
cccgttatct ttcctattac atttcagact aagacaggta aggcaaatgg tcagtgatgg    1800
gtctggaggt ccaactgagc ttggaaaata atcacatttt agctgtccat aaagagatgc    1860
gcttggcacc cagaacaagc ccccagcccc caaagttaca ttgattttta aggcagattt    1920
atccaccaca ggagaaaaaa gaatcccaag cctgtattca tgccaaaatt tcctcttggc    1980
taaacctttg ccatttcata aaattattaa aagcaaagta gttacagtct atgtatatat    2040
tgtacattat atatatatgt atatatgtat gtatagatat aaaaatttaa aacctacagc    2100
cagaggccac tgaaggaatc tgcaacagtc atatatacac aaaccagcaa tggtgtagga    2160
taaggtttct gtcccaggat tctttgctgt cacagtcccg gcgtggtgta agcaatgttg    2220
tctaatgtgt ttgacaagac ctgtttggga cagccattca attcaggtag ttgtgtggtg    2280
agacatgcca aggggccaag ggcacagata atggaatcca gaagcactga caaactgcca    2340
gacacagcca ccataccctc agtttcctgc agacggtgtc caatgaggct tagggactct    2400
cccaacagct gaagatgagc agcaacatca atgggctctg tctcaggggc tttggctggt    2460
gaggctggta acagcatggt ggtgggtggg gacttcttct ggggtgacag tactcctaca    2520
gaagaggctt tgactttcat ggaaccttct gagctggatg ctttcctttt cacagttgtg    2580
gcttctgctt tgttctgttt gtgctgcaga tactgagctt tttgcttcca aatcagtttg    2640
tcttttttctg gtaattgctt ccacacctca gccagttttt tactaagttc cccaaaatct    2700
atacctggat ggtcagccac aatggtcacg cgatactctt tacagaacac ctggtaggcc    2760
gacatgttct tctttttttgg cttttctcct ctctctctct ctttgtcctt ctcttctttt    2820
ttcttttttt tttcactatg cccatctgtg tggaggccag gaagtggcag gggaggtgct    2880
```

5291

```
gctgctccag cgtatgggat gctgggagga gggccagatg tcactgtgac ctctcccact    2940
ggcacggcag aaagtcctaa acttctcttg gacttggagt gtcgcttctc tttatgcttc    3000
tccttgtctt tcttcttttt gctcttcttt gacttctttt tcttcttgat ttctcggtaa    3060
gaatcatcta tcactaactc cccagcctct agttccccac cagaggatga gtctgattct    3120
accagaatag gttcaagccc tgaaaaatca aggttagctc tgtgggactc tgcgaactgg    3180
gaggcgtcag acccacagcc cttcaggggc ccaggagatg aatgtgcgtc tgaggatgac    3240
ttgtgctttt tccgggctgt tttcagaaag ctctgtaact catgtcctag gagtaaagca    3300
ccctgctcat cccgagctga tttctttgag gaatttttca cagtcgcttg ttgggaaggg    3360
atattgaaaa gactcctcat caacagagct gcttcccttc tcctttggtg acagaataag    3420
tttcattttt aaaccatcag gctcccgaag ggtcagtgtc tcctgtgttc acatagagag    3480
gtttcatttt tttcgatttg tgggagacac catcctctag gggtagttcc ccactgcttc    3540
cactgacttt cttcctgtgg tgctcccttt ttaactctcc cgaaatggct ttgaaagagc    3600
cagaggattt ctcccccagt cttttggag ggcttggagc ctgctgccag tggggaagtg     3660
atagctttca acaggtccat agctgtatca gtagactgtg ggctggactt tttctttttc    3720
ttctgtgacg attccaaaga cgaaatatct ggtgtatcac aaatgcagac tgttcttcta    3780
tgctgaatcc tccaaaatac cagccctcca cctctctcct ccttcacact ggtttatcgg    3840
cactcagaac aagaaccact gtcctccata gtagtaatca tcagaggagt gcttcctctt    3900
cttcttgtgt gtgtccgtcc ccaagaagta aagttcacta tccttcaact tcttcttgga    3960
agaattcctg acctgagcag caatttcttc ctcttccctt aaaaaatctt tgtaagaacg    4020
ttttttctct cgttggcttc ggccagctgc aagtcctatg tcctcaaagg tatgatcacc    4080
atcaaaacaa tcttctttct tcacggagtc atcataagcc atggtggtcc tgcagggcct    4140
ttgagaatgt gtcactgtgt ccaggctcct tcccgtctac aggaccaggt cttcactcgg    4200
ctcgcccgga tcccgcctca acgccgccga tcgccgacga aa                       4242
```

<210> 6636
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (250)...(546)
<223> similar to gi499070 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6636
```
ttttgccttt cacaggaatg ttttattgtc tctgcctgga cttctaacat agcatatgag      60
gtgaaaacac tgctttagta aaaatggaat actcttggtt acatgaaatc ccatccctcg     120
tccttcaggt ccactggagg agaagtccct cattccttgg gattggtgac gacagccgtg     180
gtggaatagg agtaggggct cagcagggcg gcaatggtgt ggtggcagca ggcgcagccc     240
agcctcgaaa tgcagaacga cgccggcgag ttcgtggacc tgtacgtgcc gcggaaatgc     300
tccgctagca atcgcatcat cggtgccaag gaccacgcat ccatccagat gaacgtggcc     360
gaggttgaca aggtcacagg caggtttaat ggccagttta aaacttatgc tatctgcggg     420
gccattcgta ggatgggtga gtcagatgat tccattctcc gattggccaa ggccgatggc     480
atcgtctcaa agaacttttg actggagaga atcacagatg tggaatattt gtcataaata     540
aataatgaaa acctaaaaaa aaaa                                            564
```

5292

<210> 6637
<211> 2411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2412)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (241)...(2411)
<223> similar to gi3877350 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6637
```
ggcacgagga gatgctgatc ctacagcact cccgctgtgc ctcagcagtg agctgggtgt    60
aaaggcagga ggcttgctgg ggtctgacac ttccctgccc tcctccagga gggacacatc   120
tggggctcta tgaggaggac agctttcatc ctgggctctg gacttctctc atttgtggcc   180
ttctggaact cagtgacatg gcatcttcag agattttggg gtgcttctgg ctacttttgg   240
caagcccagt gggagaggct gctgactaca tttgaaggga aggagtggat cctcttcttt   300
ataggtgcca tccaagtgcc ttgtctcttc ttctggagct tcaatgggct tctattggtg   360
gttgacacaa caggaaaacc taacttcatc tctcgctacc gaattcaggt cggcaagaat   420
gaacctgtgg atcctgtgaa actgcgccag tctatccgca cagttctttt caaccagtgc   480
atgatatctt tccccatggg tggtcttcct ctatcccttc ctcaaatggt ggagagaccc   540
ctgacgccgt gagctaccca ccttccactg gttcctcctg gagctggcca tcttcacgct   600
gatcgaggaa gtcttgttct actattcaca ccggctcctt caccacccaa cattctacaa   660
gaaaatccac aagaaacacc atgagtggac agctcccatt ggcgtgatct ctctctatgc   720
ccaccctata gagcatgcag tctccaacat gctaccggtg atagtgggcc cattagtaat   780
gggctcccac ttgtcctcca tcaccatgtg gtttttcttg gccctcatca tcaccaccat   840
ctcccactgt ggctaccacc ttcccttcct gccttcgcct gaattccacg actaccacca   900
tctcaagttc aaccagtgct atggggtgct gggtgtgctg gaccacctcc atgggactga   960
caccatgttc aagcagacca aggcctacga gagacatgtc ctcctgctgg gcttcacccc  1020
gctctctgag agcatcccag actccccaaa gaggatggag tgagagacag cctaagtgtc  1080
atcctggctg tccctcagcc atgggatgca gacacggctt cctgattgca cctaacaatt  1140
tgcctccttc ggccacacgc cctaatgatg gcaccaccag ggtagaggga aggtcggctt  1200
cccggaaaag cagggccaag gatgaggctt tcttcaaact actgcccttg atgtccctca  1260
atgggatcag gagttagctt aagaaaaagg aaaacacagc tccccagact ggaggctggt  1320
cagagggagg agacccctgg tcctctgctg tggaaggaga ggggttcagc cccagataac  1380
tcctttgtgg cctgggcagg atgcagagaa tgacaaggct gaaaggaggg ggactggagg  1440
ctgcctggct ccagcgagag ctccttctgg gaccagaggg tgggacggcc aggtatcact  1500
ttgccccttc ctgccccaaa aggctttcac atatccgact caggccagag ccaagacacc  1560
ctggcaaatc gttataggtc tcaattcatg acataccaga tgccagtcgc cacttcaccc  1620
aacacacaca caaacataca cacaccaaac actctgagtg agtggtaaag gccccgtttt  1680
aactctggcc caccgcaaac aaaaggtttc cctctgtggg ggagaaaaag aaatccagga  1740
gctcctccct ggattaaaac caacgaggtg cagaccaaac tttaacacct ttagccttat  1800
gtggaaacca aaaaccaact gctgggaaac tgtgaaaagc ccttttaccc acaaggggag  1860
gggtcaaagt tgctgccctt tggggacacc cgagacccct aattagccta tctgaatgag  1920
gaccaaaggt tagagccctc tttctccccg aagaaagagc ccggaaaaac atggcagagc  1980
aaagagcaaa atcctttctc ccccgaatgc tttaccagtt tctcagcaac atttattcaa  2040
gatgattttt accaggaacc ttatcaaagg caaaaccaca gctgcttggg ttgaagtccc  2100
catcctggcc tcctctcagc cgccagacat ggccaggaac cctgtggttc ccaagaacaa  2160
```

5293

```
tttaaagatc actctttgat ttgaaagacc accattatca ttttactaaa ttcttatata    2220
tacttgtgcc ttttccaact ttcagttctc ttaagaaaaa catccactgt agctttataa    2280
aataccttag tatcagctag ggtccaagtc tccaggcagg actatcaaaa tgggactcct    2340
tcttcctatc agctctagaa ccccaganga cttgccagta ggccagctga gcacttacca    2400
ggcagcatct t                                                         2411
```

<210> 6638
<211> 1352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(1303)
<223> similar to gi164459 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6638
```
gcggccgccc tcccacagcc ccacacactg ggagaccgcc caccgcaaac cgcggagacc      60
cccgtctaga tttaaagcgc ggctgcgccc ggcttctgac gtccattgaa tcgcgcgggc     120
ggccggcggc gagcgcgggg ctgcgccggg atcgctgcgc cctccgccgc tggcctctgc     180
gacgcgcgcc gctcgcccga gccacccgcc gccgcgccgg ctccccgcgc cgctgcgctc     240
ctcgcccacg cgcctgcccc caaggatggt cccgcgcgag gcaccagccg ggtgggcttt     300
gccttctgct gctgctgctc tgccagttca tggaggaccg cagtgcccag gctgggaact     360
gctggctccg tcaagcgaag aacggccgct gccaggtcct gtacaagacc gaactgagca     420
aggaggagtg ctgcagcacc ggccggctga gcacctcgtg gaccgaggag gacgtgaatg     480
acaacacact cttcaagtgg atgattttca cggggggcgc ccccaactgc atccctgta      540
aagaaacgtg tgagaacgtg gactgtggac ctgggaaaaa atgccgaatg aacaagaaga     600
acaaaccccg ctgcgtctgc gccccggatt gttccaacat cacctggaag ggtccagtct     660
gcgggctgga tgggaaaacc taccgcaatg aatgtgcact cctaaaggca agatgtaaag     720
agcagccaga actggaagtc cagtaccaag gcagatgtaa aaagacttgt cgggatgttt     780
tctgtccagg cagctccaca tgtgtgggtg gaccagacca ataatgccta ctgtgtgacc     840
tgtaatcgga tttgcccaga gcctgcttcc tctgagcaat atctctgtgg gaatgatgga     900
gtcacctact ccaggtgcct gccacctgag aaaggctacc tgcctgctgg gcagatctat     960
tggattagcc tatgagggaa agtgtatcaa agcaaagtcc tgtgaagata tccagtgcac    1020
tggtgggaaa aaatgtttat gggatttcaa ggttgggaga ggccggtgtt ccctctgtga    1080
tgagctgtgc cctgacagta agtcggatga gcctgtctgt gccagtgaca atgccactta    1140
tgccagcgag tgtgccatga aggaagctgc ctgctcctca ggtgtgctac tggaagtaaa    1200
gcactccgga tcttgcaact ccatttcgga agacaccgag gaagaggagg aagatgaaga    1260
ccaggactac agctttccta tatcttctat tctagagtgg taaactctct ataagtgttc    1320
aggggtgaca tagcctttgt gcaaaaaaaa aa                                  1352
```

<210> 6639
<211> 2637
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2095)...(1439)
<223> similar to gi3089605 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6639
```
tgtgtgtgtg tatgagagac gtgcacctat gttagcctga ggagtgtatg tctgtcagga    60
cagcaggggc ctcaagactc aggacttttta ttaggcctcc agttatggcc ttccaggaag   120
cccggcgcgg agaagcagca gaatcataga gattaataaa gaatgacgtt tggaaatgga   180
gtgatccaaa agtgatcgcc accattcctc ccgcaatgac ccaccgccct gaccagagga   240
gatcagccct taaaagttaa cttctacagc aaaaccctct tagtaaaggg caacaaagac   300
tacatcctga cacctccaag gggcacacgg tttttacagc acgttttatt attcataaaa   360
aaataaattt atttacatat gttatttcct gtggtagtgc agcctcgggg caagggcgcg   420
ttccctatcg caggatcact tgctatggta agccgcccac cctcgcgcgc tcctccgcgc   480
ggggagagaa cctgcgcggc aggaccgtgg gtgttggagt tggggctccc ggagcgtcgg   540
agtggggaga cctgatgcag agagtctgga gtcggagctg ggggtgctgc aggtaggacg   600
caggagcgga ggcggaagaa gggaaggccc gaaagaaaga cccccacaca ggtttggcgc   660
acgggggggct ttggggaagg cttcagccca ggaaagttgg aaaagggttt gacaagacgc   720
cttgccttga tttaagaaaa aagcccgggg aactttgggg aaggagaccg gatttgaaga   780
aagccacccg gcaggaaagg cccgaaacgc caaggagctc tcccgggtaa aacccgcctg   840
cggtgattct tgggaaatgt gtctccacct agccctgcga gcagcggcct ttcttcccgc   900
ccgttagaag ggcgctgtgc tggagtacga acccggccca gagaagccac tcgcccttct   960
ttgtcactta aaaccctgtc ccgaacgcgg aatctcacgt ctagacctct gtctttaaag  1020
cggatgtaga gcgcgttcta accgttccct aacccattgt gtcaccgcga aaggccgggg  1080
ctgtgtggaa ccgtcccccc acgtgtgcga tgaatcttgg tccgcttgag aacggatccg  1140
tgggcttgtc tggcgcgggc tggggcagca gccgagagtt agtctacaga gctagggccc  1200
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cacgagtaaa agttccctga ggcctcccca gaagcagatg ctgtcgtgct tcctgtatag  2580
ctgcagaact acttcaaatc atcccaacac cagagaacac taaatgacag tggacag      2637
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5295

```
<210> 6640
<211> 3028
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (743)...(1047)
<223> similar to gi1710216 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



    <400> 6640
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tttcgaagac tatttagtgg aaccttgtag aggagcaggg tcttcctgca gtgcctggaa     180
aacaggcgct gtttttttgg gaccttgcgt gaagagcagt gagcagggtt cctgtggttt     240
ccctggtccc tctgagatgg ggacagactg aagacagagg tcgtttgatt tcaaagcaag     300
tcaacctgct ttttctgtt tttacagtgg aatctaggag gccacttagt cgtctttttt     360
tcctcttaga agaaaagcct gaaactgagt tgaatagaga agtgtgaccc tgtgacaaaa     420
tgatactgtg agaaatgggg cattttaatc taagtggtta aacagtgga ttctgacggg     480
gaaggtgtag ctctgttctc ttcggaagac ctcgttttct aaaggctgga ctaaatggct     540
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catttgcccc agtgtggtca agcagccatg ctttctgggc attttcgtcc tcccataatt     660
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ggtggttaac attttttttg ttttgttttg ttttggtttt ttttttttttg aaacaaagtt     780
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tcctgggttc atgccattct cctgcctcag cctccaaagt agctgggact acaggggccc     900
gccaccacac ccggctaatt ttttgtgttt ttacaaaata caaaaaagta gagacaggat     960
ttcactgtgt tagccaggat ggtcttgatc tcccgacctc gtgatctgcc cacctcagcc    1020
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gaggaaatag ggcttttaaa taaatagatg ttctgtagca ttggtcaggg aaatatgaat    2220
taggaccaca atgagattcc attttatatc cataagattt gcaaaggttg ggtctgacag    2280
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```

5296

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tgctttaaaa aacaattatc ccttacagac ttgaacattt gcagacgtta tgatcttgct    2400
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agaatgttca tagttacata tttataatag ttaataactg gaaaaagtga aatgtatgtc    2520
tgtctacagg aaaataggtg aataattaga tatatgtatt cattctacgg gatattattc    2580
agtagtggaa atgagtgaac tacagctata cctcacaata agaatgaatc tcagaaaata    2640
ttaaggaaaa aagcaagttt gaagagacca catggggcgt actattttta ttgagcccaa    2700
aaacaagcaa aaccaaagaa tatgtagtct aagcatacgt atacaataaa actatgctat    2760
taaaaaaaaa aggtaactga taaaccaaaa ttgagcatag taattaccca cagaaggagg    2820
aagtggaagg gacaggagca cataggtaga tgccaagtta tgcagctgtt ctggttcctc    2880
ctggtaggct tacaagtgtt tactatatgc tattaataca ttatacttta taactaatag    2940
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aagtggaatg ataacctaaa aaaaaaaa                                       3028
```

<210> 6641
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (591)...(168)
<223> similar to gi5869981 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6641
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gttaggcttc cttctgtcca tagttcaggg catattcaaa gtctctaaaa gctgacgtga    180
ccatctggaa tctcgatcta acttccctga atacctcaag aacagtcctt tccggtaatt    240
tgggagccac ctgcctaaat gctttttga aatcttccaa agttaaaaat ccacgatagt    300
aggtgtcaaa ggctgtgaag atgtgtctta cttcgttccg atatcgttga gcttccttct    360
ttttcctgac aatatttaaa aacccctcga gtaatatacc agaagtattt ggatttattg    420
aagacatcac agaatccact tctatcttgg agggcttgta cccaaacagc attacaacag    480
cagttttaaa gtcctctctg ctgagatatc ctttgtgatc ttcatcacat gctttaaata    540
cttccaccca cttcctgtgt tccgagggac tggcttccca cgtccgcgac ctggctctgg    600
cctcggagaa gaacatcgcg actacaacaa ccgagcccca gcaacccaac cagct         655
```

<210> 6642
<211> 2086
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)...(1016)
<223> similar to gi5531815 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

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tcacggccgg cgcctcctcc tggattcatt cactcgctct tttcattcac gaaggtagtg      60
aggcctagtg gaaagccatg gagagcgctc tccccgccgc cggcttcctg tactgggtcg     120
gcgcgggcac cgtggcctac ctagccctgc gtatttcgta ctcgctcttc acggccctcc     180
gggtctgggg agtggggaat gaggcggggg tcggcccggg gctcggagaa tgggcagttg     240
tcacaggtag tactgatgga attggaaaat catatgcaga agagttagca aagcatggaa     300
tgaaggttgt ccttatcagc agatcaaagg ataaacttga ccaggtttcc agtgaaataa     360
aagaaaaatt caaagtggag acaagaacca ttgctgttga ctttgcatca gaagatattt     420
atgataaaat taaaacaggc ttggctggtc ttgaaatcgg catcttagtg aacaacgtgg     480
gaatgtcgta tgagtatcct gaatactttt tggatgttcc tgacttggac aatgtgatca     540
agaaaaatga taaatattaa tattctttct gtttgtaaga tgacacaatt ggtactgcct     600
ggcatggtgg aaagatccaa aggggctatt ctgaacattt catctggcag tggcatgctc     660
cctgtcccac tcttgaccat ctattctgca accaagactt ttgtagattt cttctctcag     720
tgcctccatg aggagtatag gagcaagggc gtctttgtgc agagtgtcct gccatacttc     780
gtagctacaa aactggctaa aatccggaag ccaactttgg ataagccctc tccggagacg     840
tttgtgaagt ctgcaattaa aacagtcggc ctgcaatccc gaaccaatgg atacctgatc     900
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ttgataactg cattgtaact tggccagatg ctccagcata tgcacgttca ctgcaaagca    1080
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atattgtcgg gaacacctaa tagaaaggaa tactattata gcaaatcaca gaatgataga    1320
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caagggtagc taatgacatg aaaataattg tgaaatatgg aattatttct gacacatgaa    1620
gcccactaaa ctatgctttc ttataatgca tatttcttct cagtttaaat gtatgtaaat    1680
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tattgatata attagtttta ataaaacatg ctgcaaccat ggtatacaac aaaaatacat    1980
ttctttggtg attgaaatta aggccgtatt tacaatgact taatataaga ctgacctttt    2040
atcctgcttc ataaccttgt atggagaact caccaagaaa agaatt                   2086
```

<400> 6643

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gtcgggacgg agcccaagat gtcggcctag gccggggcgc gacgacgcgg acggggcggc   180
gaggaggcgc cgctgctgcc ggggctcgca gccgccgagc ccccgagggc gcgccctgac   240
ggactggccg agccggcggt gagaggccgg cgcgtcggga gcgggccgcg cggcaccatg   300
tcggccaagg tgcggctcaa gaagctggag cagctgctcc tggacgggcc ctggcgcaac   360
gagagcgccc tgagcgtgga aacgctgctc gacgtgctcg tctgcctgta caccgagtgc   420
agccactcgg ccctgcgccg cgacaagtac gtggccgagt tcctcgagtg ggctaaacca   480
tttacacagc tggtgaaaga aatgcagctt catcgagaag actttgaaat aattaaagta   540
attggaagag gtgcttttgg tgaggttgct gttgtcaaaa tgaagaatac tgaacgaatt   600
tatgcaatga aaatcctcaa caagtgggag atgctgaaaa gagcagagac cgcgtgcttc   660
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ggggccaggg gagcttggag atggcctcca gcgttcagtg ccaagactga gcgggccctc   5520
caatgttgtc caaggaaatg tagaatcact ttgtagatat gggagatgaa gaagacaaat   5580
ctttattata atattgatca gttttatgcc gcattgttcg tggcagtaga ccacatctgt   5640
tcgtctgcac agctgtgagg cgatgctgtt ccatctgcac atgaaggacc cccatacagc   5700
ctgtctccca cccctgacaa cccgagaggg catatggggc cctgccaaca ccacttcctc   5760
agcagaaacc cgtcatgacg cggctgcttc ggaagcagac atctggggac acagcctcag   5820
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tcctatagca ttcccagtgt cactagaatt ttgaagacag gaaagtggag gttagtctgt   5940
ggcctttttt tcatttagcc attgcacagt cagctgcaga agtcctgctg accacctagt   6000
catggacaaa ggcccaggac cagtgacacc ctgcgtcct gtgtgcgtta agttcattct   6060
gggtcgcagc catgaagtgt caccagtatc tactactgtg aagtcagctg tgctgttttc   6120
cattcgcttc cacggcttct gcctcctgcc ataaaccaa cgagtgtcgt ggtgcaggca   6180
gcccctgtgg cctgctgggc tgagggaagt cagagcccca gggcgcccac gaagcagcca   6240
ctgggatacc ccaccccgcc ccgccctgcc cgcccccccc ccccaccagt cctgcccccg   6300
catgggagcc cccgtgatta gtagcccgta tgatcacgta gacccaccca acacactcct   6360
gcacactggg ccccggccca cggcacagca atccctgcg cgtggatttc accttcaccc   6420
tttgtaccag atgtttgagt gaccagctct gtggccctgt gtcgtcagcc tcagtaccca   6480
gtcttttccc tagttcctga aactttccta cggaccttaa gagaatagta ggaggtccta   6540
tagcattccc agtgtcacta gaattttgaa gacaggaaag tggaggttag tctgtggcct   6600
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5300

taagaggctt gtgattaact tg   6622

          <210> 6644
          <211> 2143
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (153)...(1349)
          <223> similar to gi2959559 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters

          <400> 6644
          ggggcggttc cttgcgcttc agtccccccc gggtcccctc ctgctcccgg gttttctgcc   60
          ccgttccccc gggtggctgt gggctcccga gccccatgtc ggccagccgg ccccagagcc   120
          ccacgacccc atggtgtctc ccaagaaggt acatgaagca caagcgcgac gatgggcccg   180
          agaagcagga ggacgaggcg gtggacgtga cgccggtgat gacctgcgtg tttgtggtga   240
          tgtgctgctc catgctggtg ctgctctact acttctacga cctcctcgtg tacgtggtca   300
          tcgggatctt ctgcctggcc tccgccaccg gcctctacag ctgcctggcg ccctgtgtgc   360
          ggcggctgcc cttcggcaag tgcaggtgag tctgccctgc tggccccgac gatccccaac   420
          aacagcctgc cctacttcca caagcgcccg caggcccgta tgctgctcct ggcgctcttc   480
          tgcgtggccg tcagcgtggt gtggggcgtc ttccgcaacg aggaccagtg ggcctgggtc   540
          ctccaggatg ccctgggcat cgccttctgc ctctacatgc tgaagaccat ccgtctgccc   600
          accttcaagg cctgcacgct gctgctgctg gtgctgttcc tctacgacat cttcttcgtg   660
          ttcatcacgc ccttcctgac caagagtggg agcagcatca tggtggaggt ggccactggg   720
          ccctcggact cagccacccg tgagaagctg cccatggtcc tgaaggtgcc caggctgaac   .780
          tcctcacctc tggccctgtg tgaccggccc ttctccctcc tgggtttcgg agacattttg   840
          gtgccagggc tgctggtggc ctactgccac aggtttgaca tccaggtaca gtcctccagg   900
          gtatacttcg tggcctgcac catcgcctat ggcgttggcc tccttgtgac attcgtggca   960
          ctggccctga tgcagcgtgg ccagcccgct ctcctctacc tggtgccctg cacgctggtg   1020
          acgagctgcg ctgtggcgct ctggcgccgg gagctgggcg tgttctggac gggcagcggc   1080
          tttgcgaaag tcctacctcc atctccgtgg gccccagcac cagccgacgg cccgcagcct   1140
          cccaaagact ctgccacgcc actctccccg cagccgccca gcgaagaacc agccacatcc   1200
          ccctggcctg ctgagcagtc cccaaaatca cgcacgtccg aggagatggg ggctggagcc   1260
          cccatgcggg agcctgggag cccagctgaa tccgagggcc gggaccaggc ccagccgtcc   1320
          ccggtaaccc agcctggcgc ctcggcctag gggaggggtg agacgctcgc tgccgtgccc   1380
          gccacaccaa gatgttgggg ctgcctggcg cccactggag acagacagac agacgcctgt   1440
          ccccccgggac cgaggcctgt gccgtcccca cccgccccaa catggtgctc atccttgccg   1500
          agacccctgc agtccgtgcc cgcgcccagc ccagctgccc cggctgcacg cctgctgctc   1560
          ccagctcgcc cggctgccac aagctctctg cgggtccatc ctccccaccg gggtccgtcc   1620
          tcgcaggccc tgcccggcct ctctgcagac cctcaagcgt cgtctgcatg agtgagcagg   1680
          cgtgggtgga ctctggccgc ggccacactt ggtgctcacc agctgcttcg gccttcaggt   1740
          gacctccctc cccacggcat cctgctctcc gggtggaaga gcagctttct gtctcccaga   1800
          aggcatcgct tttccctctt gagcagatcg gagccctgg gaggtttgga agctgcctcc   1860
          aagcctagga cacggaccgg tggccggggc ggcctctggc ccctgacgct ggctgagaca   1920
          ggcccgtggg gcggggtttt ggggcgtgaa caaggctggc agtaagtgga caagctgctc   1980
          ccctggctaa ggccctgccc tgccctcagg ggtccctgga gccctgggag ggagggactg   2040
          ggtcgtggga ggtcctggta gctcccggca cccaacctcg cttcccgtgt gggccccgtg   2100
          ttgcttttct gctgagaggg gcttgggcct cggttctccc tgg   2143

                                        5301

<210> 6645
<211> 1069
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1070)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (805)...(202)
<223> similar to gi5911816 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6645
tttttttttt ttgcaagctc tcttagcttg tgcattcaga ccagacatca catgtaaata   60
tttatacaca gggaggtggg aggggagggc cacacgatgc gttgctgcgc cccccgcctt   120
cctctcactc ctcttataag aagcgcggag tgttctgcct tttcacctac gcagccccag   180
cccggccccc ctggggaccc tagagagggt gtcctttctg tttatccttc tctttgctcc   240
agatggctgc gctctctagg ggcgcgatgt gtgtgtggtg gagccgggtc ccctccagca   300
aggagggcgg cccactgctc tgctggtgct ggaaggagga ccccgggtag tggccgatga   360
cctcgctgta ggtggggcgg cggccctcc atgcgcccgc cgctgccgta gcacgtggcg   420
ctgatgcccg agttactgct gggggggcag gggccgccca gcctggcact atccatcagg   480
tcactgtcga agatggttct gtttgggggt gcgcgcaccg actcccggtt cagttccagc   540
tgctgctcgg ggtcccgaag ctggagggtg caggggccct ggtagggtgg gggctcctcc   600
ccgtccgaca gcgaaatagt gggcggcagg tcgatctcgt gctgcaggta cggataggtg   660
ggctggaagc ggtggaagcg ctcccgctgg gcgaagggcg gcacggccag gcggtcggtg   720
ggccgaggcg gggcgtagac ctgcggctct gggattccgt tgcctgacac tgtgctctcc   780
gagggccaca ggcatccttc tgaggacagg gcatcttctc tcctncgccc ctggctgtgc   840
cggctgatga aggaccgtgc agacagcttg tagtggctca gcaggcacgt gatcaccacc   900
accatcacca tcatcaccac cacggatgat gatgatctga acaanatctt cagtccgctg   960
gtttcgcagg agactgtccg ccttcagttc tccagcagct cggggatcat ggcccactga   1020
accccaagc gctttcaccc gaacccaagg aggacgacca ggaaagacg   1069

<210> 6646
<211> 1856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)...(1382)
<223> similar to gi3041855 in the genepept database release 114,

5302

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<400> 6646
tgccggagtc gagcgggtgc tgctagcgga ggcgccatat tggaggggac aaaactccgg    60
cgacagcgag ttgacacaaa taaacccctg gaccccttg ttccctcagc tctaagggcc   120
gcgatgttgt acctagaaga ctatctggaa atgattgagc agcttcctat ggatctgcgg   180
gaccgcttca cggaaatgcg cgagatggac ctgcaggtgc agaatgcaat ggatcaacta   240
gaacaaagag tcagtgaatt ctttatgaat gcaaagaaaa ataaacctga gtggagggaa   300
gagcaaatgg catccatcaa aaaagactac tataaagctt tggaagatgc agatgagaag   360
gttcagttgg caaaccagat atatgacttg gtagatcgac acttgagaaa gctggatcag   420
gaactggcta agtttaaaat ggagctggaa gctgataatg ctggaattac agaaatatta   480
gagaggcgat ctttggaatt agacactcct tcacagccag tgaacaatca ccatgctcat   540
tcacatactc cagtggaaaa aaggaaatat aatccaactt ctcaccatac gacaacagat   600
catattcctg aaaagaaatt taaatctgaa gctcttctat ccacccttac gtcagatgcc   660
tctaaggaaa atacactagg ttgtcgaaat aataattcca cagcctcttc taacaatgcc   720
tacaatgtga attcctccca acctctggga tcctataaca ttggctcgtt atcttcagga   780
actggtgcag ggggcattta ccatggcagc tgctcaagca gttcaggcta cagctcagat   840
gaaggaggga cgaagaacat caagtttaaa agccagttat gaagcattta agaataatga   900
ctttcagttg ggaaaagaat tttcaatggc cagggaaaca gttggctatt catcatcttc   960
ggcacttatg acaacattaa cacagaatgc cagttcatca gcagccgact cacggagtgg  1020
tcgaaagagc aaaaacaaca acaagtcttc aagccagcag tcatcatctt cctcctcctc  1080
ttcttcctta tcatcgggtt cttcatcatc aactgttgta caagaaatct ctcaacaaac  1140
aactgtagtg ccagaatctg attcaaatag tcaggttgat tggacttacg acccaaatga  1200
acctcgatac tgcatttgta atcaggtatc ttatggtgag atggtgggat gtgatacccca  1260
agattgccct atagaatggt tccattatgg ctgcgttgga ttgacagagg caccaaaagg  1320
caaatggtac tgtccacagt gcactggctg caatgaagag aagaggcagc agacacaaat  1380
aaaaggtggt cctttggtt tgaaggaaga aataaacttc agcctgaagg ttttaatatg  1440
gggaccttaa aaagaagaga agagaaagaa gaaacaatgc cattcccccg gcaaccccac  1500
ctaaaggatt tacccataga caatccccta taagatcttg aaccttgaat tttaatgggg  1560
ttgtatttta aataatgtaa agtaaattat ttaatgcacc ccccggtgt gcctatgaat  1620
attattccca gttagcccctt ggattatttc cagtggccca acatatgcag acatttgtac  1680
tcctcaaccc attttctcaa agtaatgggc attctatgat ttagacttca aggaattcca  1740
atgatgaaga ttttaaggaa agtatttat attcaacagg tatattctgc tgcatgtact  1800
gtactccaga gctgttatgt aacactgtat ataaatggtt gcaaaaaaaa aaaaaa       1856
```

```
<210> 6647
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

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        <400> 6647
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag      60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc     120
cctgtgggtg gggtgggggc tggaacctat gaacattctg caggggccac tgacttctcc     180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg     240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg     300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt     360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac     420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg     480
aggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa     540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct     600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag     660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt     720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac     780
cgcnctgact aatgtcatca gtgnntcaat tnnccccct ccctcg                     827




        <210> 6648
        <211> 3090
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (98)...(2465)
        <223> similar to gi220912 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6648
gtccgggttc gcttgcctcg tcagcgtccg cgttttccc ggcccccccc aaccccccg        60
gacaggaccc ccttgagctt gtccctcagc tgccaccatg agcgaccaag atcactccat     120
ggatgaaatg acagctgtgg tgaaaattga aaaaggagtt ggtggcaata atgggggcaa     180
tggtaatggt ggtggtgcct tttcacaggc tcgaagtagc agcacaggca gtagcagcag     240
cactggagga ggagggcagg agtcccagcc atcccctttg gctctgctgg cagcaacttg     300
cagcagaatt gagtcaccca atgagaacag caacaactcc cagggcccga gtcagtcagg     360
gggaacaggt gagcttgacc tcacagccac acaactttca cagggtgcca atggctggca     420
gatcatctct tcctcctctg gggctacccc tacctcaaag aacagagtg gcagcagtac     480
caatggcagc aatggcagtg agtcttccaa gaatcgcaca gtctctggtg ggcagtatgt     540
tgtggctgcc gctcccaact tacagaacca gcaagttctg acaggactac ctggagtgat     600
gcctaatatt cagtatcaag taatcccaca gttccagacc gttgatgggc aacagctgca     660
gtttgctgcc actggggccc aagtgcagca ggatggttct ggtcaaatac agatcatacc     720
aggtgcaaac caacagatta tcacaaatcg aggaagtgga ggcaacatca ttgctgctat     780
gccaaaccta ctccagcagg ctgtcccct ccaaggcctg gctaataatg tactctcagg     840
acagactcag tatgtgacca atgtaccagt ggccctgaat gggaacatca ccttgctacc     900
tgtcaacagc gtttctgcag ctaccttgac tccagctct caggcagtca cgatcagcag     960
ctctgggtcc caggagagtg gctcacagcc tgtcacctca gggactacca tcagttctgc    1020
cagcttggta tcatcacaag ccagttccag ctcctttttc accaatgcca atagctactc    1080
```

5304

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aactactact accaccagca acatgggaat tatgaacttt actaccagtg gatcatcagg   1140
gaccaactct caaggccaga caccccagag ggtcagtggg ctacaggggt ctgatgctct   1200
gaacatccag caaaaccaga catctggagg ctcattgcaa gcaggccagc aaaaagaagg   1260
agagcaaaaa ccagcagacc caagcagcac caaaatcttt atcccggcct cagctagttc   1320
aaggggggac aggccctcca aggctttcca agcagcacca ttgtcagggc agacctttac   1380
aactcaagcc atctcccagg aaaccctcca gaacctccag cttcaggctg ttccaaactc   1440
tggtcccatc atcatccgga caccaacagt ggggcccaat ggacaggtca gttggcagac   1500
tctacagctg cagaacctcc aagttcagaa cccacaagcc caaacaatca ccttagcccc   1560
aatgcagggt gtttccttgg ggcagaccag cagcagcaac accactctca cacccattgc   1620
ctcagctgct tccattcctg ctggcacagt cactgtgaat gctgctcaac tctcctccat   1680
gccaggcctc cagaccatta acctcagtgc attgggtact tcaggaatcc aggtgcaccc   1740
aattcaaggc ctgccgttgg ctatagcaaa tgccccaggt gatcatggag ctcagcttgg   1800
tctccatggg gctggtggtg atggaataca tgatgacaca gcaggtggag aggaaggaga   1860
aaacagccca gatgcccaac cccaagccgg tcggaggacc cggcgggaag catgcacctg   1920
cccctactgt aaagacagtg aaggaagggg ctcgggggat cctggcaaaa agaaacagca   1980
tatttgccac atccaaggct gtgggaaagt gtatggcaag acctctcacc tgcgggcaca   2040
cttgcgctgg catacaggcg agaggccatt tatgtgtacc tggtcatact gtgggaaacg   2100
cttcacacgt tcggatgagc tacagaggca caaacgtaca cacacaggtg agaagaaatt   2160
tgcctgccct gagtgtccta agcgcttcat gaggagtgac cacctgtcaa aacatatcaa   2220
gacccaccag aataagaagg gaggcccagg tgtagctctg agtgtgggca ctttgcccct   2280
ggacagtggg gcaggttcag aaggcagtgg cactgccact ccttcagccc ttattaccac   2340
caatatggta gccatggagg ccatctgtcc agagggcatt gcccgtcttg ccaacagtgg   2400
catcaacgtt aaagaaggtg gccagttctg cagccccata aataccagtg ccaatggctt   2460
ctgaggtcaa gccaccgggg ccaagagaca tagtggccaa tccccttac ccccgggatg   2520
caaggtagca tgggtccaag agacatggaa gagagagcca tgaagcatta aaatgcatgg   2580
tgttgagaag aatcaggaga gggatacaag agaggagatg gggtcccggc acccatctgt   2640
atcatcagtg cctctttgaa ggtgggaaac attagtgaaa attctgttgg tgccacgctt   2700
tgatgagcat ttgtttgacc ccagtttctt cttacacttc ttacccccag cctacccttc   2760
ctgcatttct cttctcagct cttccatgat ggattccccc cccttcccta aagccatcat   2820
gccttgataa atatatatga tcattgaaat actttttaac aaaaaacaga ttctatatta   2880
ttatatatat atatatatat aaagatatat agagatgcat tcacaggggt tggctgggag   2940
gaggaagacc attctgtgac caaaatacct tggtcatttt ttttatattg ccttatttcc   3000
cttatggctg agccttgttg tgacacatca agcttttctg tagatgttgt cttggcttcc   3060
caccagctta agcgttcata tgctctgctt                                     3090
```


<210> 6649
<211> 3104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (47)...(1455)
<223> similar to gi4680659 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6649
cgacgatttc gtgggagttc tgagtgcgac ggcgcaggtc tgcaccatgg cggcccggct   60
tgtcagccga tgcggggctg tgcgtgcagc tccccacagc ggcccgctgg tgtcctggcg   120
caggtggtcc ggcgcctcaa cagacaccgt gtatgacgtg gtggtgtcgg gtggaggcct   180
```

```
ggtgggcgct gccatggcct gtgccttggg atatgatatt cactttcatg acaagaaaat    240
cctgttgctc gaagcaggtc caaagaaagt actggagaaa ttgtcagaaa cttacagcaa    300
cagggtcagc tccatttccc ctggctctgc aacgcttctc agtagttttg gtgcctggga    360
ccatatctgc aacatgagat acagagcctt tcggcgaatg caggtgtggg acgcctgctc    420
agaggccctg ataatgtttg ataaggataa tttagatgac atgggctata tccttggaga    480
atgatgttca tcatgcatgc tttcactaag cagttggagg ctgtgtctga ccgagtgacg    540
gttctctaca ggagcaaagc cattcgctat acctggcctt gtccatttcc tatggccgac    600
tccagcccctt gggttcatat taccctaggt gatggcagca ccttccagac caaattgttg    660
ataggtgcag atggtcacaa ctccggagta cggcaggctg ttggaatcca gaatgtgagc    720
tggaactatg accagtctgc tgttgtggct actctgcatt tatcagaggc cacagaaaac    780
aacgtagcct ggcagagatt tcttccctct gggcctattg ctctgctccc gctctcagac    840
accttgagtt ccttggtttg gtccacgtcc catgaacatg cagcagagct agttagcatg    900
gatgaggaaa aatttgtgga tgccgttaac tctgcctttt ggagtgatgc tgaccacacg    960
gacttcatcg acacagctgg tgccatgctg cagtatgctg tcagccttct gaagcccact   1020
aaggtctcgg ctcgccagct gccccaagc gtagccaggg tggatgccaa aagccgagtt   1080
ctgtttcctc ttgggttggg acatgctgct gagtacgtca ggcctcgggt ggcgctcatt   1140
ggggatgcag cccacagagt ccatccgctt gcaggacagg gtgtcaacat gggctttggg   1200
gatatctcca gcttggccca tcacctcagt acggcagcct tcaatgggaa ggacttaggt   1260
tccatgagcc acctcacagg ttatgaaaca gaaagacagc gtcacaacac tgctcttctg   1320
gctgctacag acttactaaa aaggctctat tctaccagtg cctccccgct tgtgttgctc   1380
aggacgtggg gcttgcaggc cacaaatgca gtgtctccac tcaaagaaca gattatggcc   1440
tttgcaagca aatgagtact cctctcctaa agaaagatta cgttgatgaa aaagaacatc   1500
ctgcccagga cccatcatac atattttcaa gatcttattt aatttaataa acttactta   1560
cattaaaatt ctctttttct tctttgctta atgggcctgt ggcacccaaa taatgaatga   1620
taatttgctg tgaggagcgt atattagcca gaccaaagga aaaaacttcg aaggaagact   1680
tacaatttgg ttgaaaagag ctttttatta ctaaaaaacc cacaaggtgc tgtctcactc   1740
atttccagtt aatcatttct aaagagaaaa tttacatttt gtttttgttt taatgttggt   1800
cataaattta tacagttgtt ttttcgatag aggtaagaat tagactcgat gcatttttgt   1860
tagaattgct gtttaaatgt taacatcagg aatgcaaatt aaatataaat tgctttaacc   1920
tttgttacag gggatactgg dactttctg aaaggaaaac cagggtctca ttaatgctag   1980
gttattactt tatcacaggc accagatttt ccattttatt tatgggttcc tctctgggac   2040
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<210> 6650
<211> 5732
<212> DNA

5306

<213> Homo sapiens

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<223> similar to gi3043652 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

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5307

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<211> 6087
<212> DNA
<213> Homo sapiens

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5309

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5310

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        <211> 1636
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1581)...(815)
        <223> similar to gi3874279 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters




        <400> 6652
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ggacgcagag  gctacagttc  tcactgtgtg  gcatgggagc  cttcacagtg  ccctcgggag       180
ctgcccctgg  tctttgtctg  caaaggtgac  tgggaggata  gaaaaagcag  cgggctggca       240
ttgtttcggg  ggtggggtgg  tgggcagtgt  gcctgggcag  tcgcagggag  gctgacttgg       300
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aatgcaaaga  gtctgaagag  gaggcagtgg  gcatagtgcc  cctgaatctg  gttaggtgga       420
gtttactgca  tttaaaggcc  catggtgagt  ggtgagttct  gggatttggg  agattcccag       480
aggcctgaca  ggcctgtccc  accctcctgg  acttcactac  agggagctga  agtcagggcc       540
caggcagggg  agcaggccac  ccaggtaggg  aacaaatgcc  tgcccatgca  gggcagaggg       600
cagaaggcag  ggctgtcagg  gccttggttg  gtctgggcac  tggggcaggt  ggaggggagg       660
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ggcagggggtg gaggggaggc  aggggtggag  gagaggcagg  ggtggaggag  gcggggctct       780
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cgccttcatg  tagggaccaa  cgtccagcat  caggccagag  gtctccttgt  agtaacgccc      1140
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catgttttga  taagaaaagc  tttctcctgc  gtctgcaatt  accacacagt  ttggggttgg      1260
gatgtgtcga  tctgatcaaa  ttctgaggcg  gactccgtca  tggatgagca  ggtatggtcg      1320
caggcctcgc  tccttcagga  tctggcaggc  agctggtgcc  ggggcggtca  cctcctgctc      1380
agagatgtca  aatcccagcc  tctgaagctg  ccccaccagc  tctgcccggg  acttctgcga      1440
ctcgttggtg  cagaacctca  ccttcagccg  ggaacgcttc  agtctggcca  ccgcctccac      1500
cgagccggcg  atggccgtgc  cgccgcccgc  gccgctgtcg  tacagcacgc  ccgagatgtc      1560
aagcagcacc  ccgcgcacgc  cagccagccg  cttgccccac  ggtgccatgg  cgccccggac      1620
gcgtgggtcg  acccgg                                                         1636




        <210> 6653
        <211> 3821
```

5311

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (44)...(3234)
<223> similar to gi3297986 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6653
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ccatggtagg agcgctcgcc tcgctgcggt gcccgctgag gccatgccgg ggccccggcg      60
ccccgctggc tcccgcctgc gcctgctcct gctcctgctg ctgccgccgc tgctgctgct     120
gctccggggc aagccacgcg ggcaacctga cggtagccgt ggtactgccg ctggccaata     180
cctcgtaccc ctggtcgtgg gccgcgcgtg ggacccgccg tggagctggc cctggcccag     240
gtgaaggcgc gccccgactt gctgccgggc tggacggtcc gcacggtgct gggcagcagc     300
gaaaacgcgc tgggcgtctg ctccgacacc gcagcgcccc tggccgcggt ggacctcaag     360
tgggagcaca accccgctgt gttcctgggc cccggctgcg tgtacgccgc cgccccagtg     420
gggcgcttca ccgcgcactg gcgggtcccg ctgctgaccg ccggcgcccc ggcgctgggc     480
ttcggtgtca aggacgagta tgcgctgacc acccgcgcgg ggcccagcta cgccaagctg     540
ggggacttcg tggcggcgct gcaccgacgg ctgggctggg agcgccaagc gctcatgctc     600
tacgcctacc ggccgggtga cgaagagcac tgcttcttcc tcgtggaggg gctgttcatg     660
cgggtccgcg accgcctcaa tattacggtg gaccacctgg agttcgccga ggacgacctc     720
agccactaca ccaggctgct gcggaccatg ccgcgcaaag gccgagttat ctacatctgc     780
agctcccctg atgccttcag aaccctcatg ctcctggccc tggaagctgg cttgtgtggg     840
gaggactacg ttttcttcca cctggatatc tttgggcaaa gcctgcaagg tggacagggc     900
cctgctcccc gcaggccctg ggagagaggg gatgggcagg atgtcagtgc ccgccaggcc     960
tttcaggctg ccaaaatcat tacatataaa gacccagata atcccgagta cttggaattc    1020
ctgaagcagt taaaacacct ggcctatgag cagttcaact tcaccatgga ggatggcctg    1080
gtgaacacca tcccagcatc cttccacgac gggctcctgc tctatatcca ggcagtgacg    1140
gagactctgg cacatggggg aactgttact gatggggaga acatcactca gcggatgtgg    1200
aaccgaagct ttcaaggtgt gacaggatac ctgaaaattg atagcagtgg cgatcgggaa    1260
acagacttct ccctctggga tatggatccc gagaatggtg ccttcagggt tgtactgaac    1320
tacaatggga cttcccaaga gctggtggct gtgtcggggc gcaaactgaa ctggcccctg    1380
gggtaccctc ctcctgacat ccccaaatgt ggctttgaca cgaagacccc agcatgcaac    1440
caagatcacc tttccaccct ggaggtgctg gctttggtgg gcagcctctc cttgctcggc    1500
attctgattg tctccttctt catatacagg aagatgcagc tggagaagga actggcctcg    1560
gagctgtggc gggtgcgctg ggaggacgtt gagcccagta gccttgagag gcacctgcgg    1620
agtgcaggca gccggctgac cctgagcggg agaggctcca attacggctc cctgctaacc    1680
acagagggcc agttccaagt ctttgccaag acagcatatt ataagggcaa cctcgtggct    1740
gtgaaacgtg tgaaccgtaa acgcattgag ctgacacgaa aagtcctgtt tgaactgaag    1800
catatgcggg atgtgcagaa tgaacacctg accaggtttg tgggagcctg caccgacccc    1860
cccaatatct gcatcctcac agagtactgt ccccgtggga gcctgcagga cattctggag    1920
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ggcatgctgt ttctacacaa tggggctatc tgttcccatg gaacctcaa gtcatccaac     2040
tgcgtggtag atgggcgctt tgtgctcaag atcaccgact atgggctgga gagcttcagg    2100
gacctggacc cagagcaagg acacaccgtt tatgccaaaa agctgtggac ggcccctgag    2160
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gggatcatcc ttcaggagat tgccctgagg agtggggtct ccacgtgga aggtttggac    2280
ctgagcccca aagagatcat cgagcgggtg actcggggtg agcagccccc cttccggccc    2340
tccctggccc tgcagagtca cctggaggag ttggggctgc tcatgcagcg gtgctgggct    2400
gaggacccac aggagaggcc accattccag cagatccgcc tgacgttgcg caaatttaac    2460
agggagaaca gcagcaacat cctggacaac ctgctgtccc gcatggagca gtacgcgaac    2520
aatctggagg aactggtgga ggagcggacc caggcatacc tggaggagaa gcgcaaggct    2580
gaggccctgc tctaccagat cctgcctcac tcagtggctg agcagctgaa gcgtgggggag    2640
```

```
acggtgcagg ccgaagcctt tgacagtgtt accatctact tcagtgacat tgtgggtttc    2700
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acttgctttg atgctgtcat agacaacttt gatgtgtaca aggtggagac aattggcgat    2820
gcctacatgg tggtgtcagg gctccctgtg cggaacgggc ggctacacgc ctgcgaggta    2880
gcccgcatgg ccctggcact gctggatgct gtgcgctcct tccgaatccg ccaccggccc    2940
caggagcagc tgcgcttgcg cattggcatc cacacaggac ctgtgtgtgc tggagtggtg    3000
ggactgaaga tgccccgtta ctgtctcttt ggggatacag tcaacacagc ctcaagaatg    3060
gagtctaatg gggaagccct ggaagatcca cttgtcttct tgagaccaag gctgtcctgg    3120
gaggagtttg gtggtttcga gctggagctt cgaggggatg tagaaatgaa gggcaaaggc    3180
aaggttcgga cctactggct ccttggggag aggggggagta gcacccgagg ctgacctgcc    3240
tcctctccta tccctccaca cctccctacc ctgtgccaga agcaacagag gtgccaggcc    3300
tcagcctcac ccacagcagc cccatcgcca aaggatggaa gtaatttgaa tagctcaggt    3360
gtgctgaccc cagtgaagac accagatagg acctctgaga ggggactggc atggggggat    3420
ctcagagctt acaggctgag ccaagcccac ggccatgcac agggacactc acacaggcac    3480
acgcacctgc tctccacctg gactcaggcc gggctgggct gtggattcct gatcccctcc    3540
cctccccatg ctctcctccc tcagccttgc taccctgtga cttactggga ggagaaagag    3600
tcacctgaag gggaacatga aaagagacta ggtgaagaga gggcagggga gcccacatct    3660
ggggctggcc cacaatacct gctcccccga ccccctccac ccagcagtag acacagtgca    3720
caggggagaa gaggggtggc gcagaagggt tgggggcctg tatgccttgc ttctaccatg    3780
agcagagaca attaaaatct ttattccagt gaaaaaaaa a                         3821
```

<210> 6654
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)...(446)
<223> similar to gi1754621 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6654
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ggggcctcac tattttatat ttttgtctca aaaaacaact ctctcttgtg gtgtgtgctt     60
gattctgctt cttgtcatgt cttctcacaa gtcttttaag agtaagcgat tcctggccaa    120
gaaacaaaag ccaaatcgtc ccattctcca gtggatctgg ttgaaaactg gtaataaaat    180
caggcacaac tggaaaggag acattgcaga acagccaagc tgggtctata aggaactgca    240
cgtgagctgg cacacatatt cacgctgtat caaggtcacg gccatcttac tatagcaagc    300
tgaaaacgtc accactgtct gaacagttgg acgtgtttta ttgggaatat attttttctc    360
tttgcttata tgccctgcga tagtaggctg ggttcagtaa taaatatgtg agacctttg     420
tttcaggaaa aaaagaacca atataa                                         446
```

<210> 6655
<211> 4182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)...(4027)
<223> similar to gil228047 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6655
attgtttcga cccacgcgtc cgccctccag cagccctagt gtgcagagcc ttttactctt   60
ttttaactgg cttttctccc ttcttaccag gtacctgcac atgttgttct ttgtcagtgc   120
tgtcaagtgt gtgccagggt gatccatggt cactttccgg gatggcagca aggtgacttc   180
ggctgaggat gaccctgact gaaaggctgc gtgagaagat atctcgggcc ttctacaacc   240
atgggctcct ctgtgcatcc tatcccatcc ccatcatcct cttcacaggg ttctgcatct   300
tagcctgctg ctacccactg ctgaaactcc ccttgccagg aacaggacct gtggaattca   360
ccaccctgt gaaggattac tcgcccccac ctgtggactc tgaccgcaaa caaggagagc   420
ctactgagca gcctgagtgg tatgtgggtg ccccggtggc ttatgtccag cagatatttg   480
tgaagtcctc agtgtttccc tggcacaaga acctcctggc agtagatgta tttcgttcac   540
ctttgtcccg ggcattccaa ctggtggagg agatccggaa ccacgtgctg agagacagct   600
ctgggatcag gagcttggag gagttgtgtc tgcaagtgac cgacctgctg ccaggcctta   660
ggaagctcag gaacctactc cctgagcatg gatgcctgct gctgtcccct gggaacttct   720
ggcagaatga ctgggaacgc ttccatgctg atcctgacat cattgggacc atccaccagc   780
acgagcctaa aaccctgcag acttcagcca cactcaaaga cttgttattt ggtgttcctg   840
ggaagtacag cggggtgagc ctctacacca ggaagaggat ggtctcctac accatcaccc   900
tggtcttcca gcactaccat gccaagttcc tgggcagcct gcgtgcccgc ctgatgcttc   960
tgcaccccag ccccaactgc agccttcggg cggagagcct ggtccacgtg cacttcaagg   1020
aggagattgg tgtcgctgag ctcatccccc ttgtgaccac ctacatcatc ttgtttgcct   1080
acatctactt ctccacgcgg aagatcgaca tggtcaagtc caagtggggg ctggccctgg   1140
ctgccgtggt cacagtgctc agctcgctgc tcatgtctgt gggactctgc acactcttcg   1200
gcctgacgcc caccctcaat ggcggcgaga ttttcccta ccttgtggtg gttattgggt   1260
tagagaatgt gttggtgctc accaagtctg tggtctcaac cccggtagac ctggaggtga   1320
agctgcggat cgcccaaggc ctaagcagcg agagctggtc catcatgaag aacatggcca   1380
cggagctggg catcatcctc atcggctact tcaccctagt gcccgccatc caggagttct   1440
gtctctttgc tgtcgtgggg ctggtgtctg acttcttcct tcagatgctg tttttcacca   1500
ctgtcctgtc cattgacatt cgccggatgg agctagcaga cctgaacaag cgactgcccc   1560
ctgaggcctg cctgccctca gccaagccag tggggcagcc aacgcgctac gagcggcagc   1620
tggctgtgag gccgtccaca ccccacacca tcacgttgca gccgtcttcc ttccgaaacc   1680
tgcggctccc caagaggctg cgtgttgtct acttcctggc ccgcacccgc ctggcacagc   1740
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tggctcccat gcccgtgcct agtggcatgc tgccccccag ccacccggac cctgccttct   1920
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cctgagcgtg gaggtccagc agaggttgtc catgacagcc cagtcccaga ggtaacctgg   2040
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agctattaca acatcacact ggccaagagg tacatcagcc tgctgcccgt catcccagtc   2160
acgctccgcc tgaacccgag ggaggctctg gagggccggc accctcagga cggccgcagt   2220
gcctggcccc caccggggcc catacctgct gggcactggg aagcaggacc caagggccca   2280
ggtggggtgc aggcccatgg agacgtcacg ctgtacaagg tggcggcgct gggcctggcc   2340
accggcatcg tcttggtgct gctgctgctc tgcctctacc gcgtgctatg cccgcgcaac   2400
tacgggcagc tgggtggtgg gcccgggcgg cggaggcgcg gggagctgcc ctgcgacgac   2460
tacggctatg cgccacccga gacggagatc gtgccgcttg tgctgcgcgg ccacctcatg   2520
gacatcgagt gcctggccag cgacggcatg ctgctggtga gctgctgcct ggcaggccac   2580
gtctgcgtgt gggacgcgca gaccggggat tgcctaacgc gcattccgcg cccaggcagg   2640
cagcgccggg acagtggcgt gggcagcggg cttgaggctc aggagagctg ggaacgactt   2700
tcagatggtg ggaaggctgg tccagaggag cctggggaca gccctcccct gagacaccgc   2760

5314

```
ccccggggcc ctccgccgcc ttccctcttc ggggaccagc ctgacctcac ctgcttaatt    2820
gacaccaact tttcagcgca gcctcggtcc tcacagccca ctcagcccga gccccggcac    2880
cgggcggtct gtggccgctc tcgggactcc ccaggctatg acttcagctg cctggtgcag    2940
cgggtgtacc aggaggaggg gctggcggcc gtctgcacac cagccctgcg cccaccctcg    3000
cctgggccgg tgctgtccca ggccctgag dacgaggtg gctcccccga gaaaggctcc    3060
ccttccctcg cctgggcccc cagtgccgag ggttccatct ggagcttgga gctgcagggc    3120
aacctcatcg tggtgggcg gagcagcggc cggctggagg tgtgggacgc cattgaaggg    3180
gtgctgtgct gcagcagcga ggaggtctcc tcaggcatta ccgctctggt gttcttggac    3240
aaaaggattg tggctgcacg gctcaacggt tcccttgatt tcttctcctt ggagacccac    3300
actgccctca gccccctgca gtttagaggg accccagggc ggggcagttc ccctgcctct    3360
ccagtgtaca gcagcagcga cacagtggcc tgtcacctga cccacacagt gccctgtgca    3420
caccaaaaac ccatcacagc cctgaaagcc gctgctgggc gcttggtgac tgggagccaa    3480
gaccacacac tgagagtgtt ccgtctggag gactcgtgct gcctcttcac ccttcagggc    3540
cactcagggg ccatcacgac cgtgtacatt gaccagacca tggtgctggc cagtggagga    3600
caagatgggg ccatctgcct gtgggatgta ctgactggca gccgggtcag ccatgtgttt    3660
gctcaccgtg gggatgtcac ctcccttacc tgtaccacct cctgtgtcat cagcagtggc    3720
ctggatgacc tcatcagcat ctgggaccgc agcacaggca tcaagttcta ctccattcag    3780
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ctggggaaga acagtgaggc ccagcctgcc cgccagatcc tggtgctgga caacgctgcc    3960
attgtctgca actttggcag tgagctcagc ctggtgtatg tgccctctgt gctggagaag    4020
ctggactgag cgcagggcct ccttgcccag gcaggaggct ggggtgctgt gtgggggcca    4080
atgcactgaa cctggacttg ggggaaagag ccgagtatct tccagccgct gcctcctgac    4140
tgtaataata ttaaactttt ttaaaaaacc ataaaaaaaa aa                       4182
```

<210> 6656
<211> 7268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7251)...(1157)
<223> similar to gi2988422 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6656
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tttttttttt ttaaagtttt tcaagacttt aatttcacaa gcgattgaca cagaaacata     60
ctagagttta gttaacacgg cacccaaccc cgaccgccgg cccgcttcat cgggtcctgc    120
tcctaggagg actgggctgg ggctgggggt ggggatggga tggggagtggg gaagggacgg    180
gacgttgcag tttaaggcat ttctggcttc ggagccatcc ctgccacctc tgcacctgcc    240
ccttgacctt ggtcagacac tggctggccc ctggtcattc tgagacaagg acgactttca    300
ctgacgctgt ggggaggatt tgcagtgagg cagccctcag ccgctctcag gcgagatggg    360
aaagatgaga cccaccactc cagggtcaa ataaaatcaa cacatgaaga acacagccat    420
ggccaggccc agatacccag gcaggcggca gaggtcaacc ccatcccaca gtgagctcct    480
ctcgatagcc cctcgcaggg cctggggtgt ggcagaggga tacggtcatg tccagggtgg    540
ctgggcaggg ccagctgagg gtcaggacac ccagatcggc cctggtctgg cctctgctcc    600
tcagcagcct ggggctggcg caggcagcac gggagcaacg cagagctgtg cccagcagta    660
acattgtttg gaagtcacag tattggcgca ggaggccgag gcagggtcca gagcacacac    720
aggaaggagc agctcaaata ggggcttgga aaggcccctg tggggtcacc cggaggaagg    780
```

5315

```
gccccatcag acctcagcag cccccttcctc tcttgggaca cgagtcccgc ctgacggagc    840
gagggtgatt caggagccgg ggctgcttcc cggcggggac accgtggggc aggcgcagtg    900
caaggcgggg gctcagcacc ttgaggcagg ggtgtgtgtc ctgaggctgc catccacgcc    960
gagccctcca cgctgccccc tcgcctgtcc atccctcagc actaggtctg tctgcagcac   1020
ggctgcctgg acggaaggga ggccgggcca gcagtccctc cggccaacac tcaggcaaga   1080
aaatcatatc aaaaagcaac aagtttacaa aaatagaaaa taattacagc gggcgcgggg   1140
ctctggtgcc agctcatggg gtggggcagg gccgcagctc tggcttggtg acggcgtcct   1200
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tgccgtaggc cttgggcagt gctgggccca cgggcagctc cggcaggccc ccaagccaca   1320
gggctccatc agtgtccagc tgcgtggcgc ccagcgggga ggagccggtc acaggggcct   1380
cattgcccac ctgcagggaa ccttccctct gctccctatg tgccacgacc cgcaaccagc   1440
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tgccactcca gagccccagc ccctgcgtgg cctcagtgcg caggctcagt tcaaagtggt   1620
tgctctgcag tgccttctcg ctctcggtca cagcgttgag gtactcgaca aaggtccgcc   1680
cgtcaaaggc caaggtatcc acgtcccccg ctgacttctc caccagcccc ttctcgcagt   1740
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aggccccatt gaggcagggg tggcctgagg cccgggtgca ggggtgacct gcaaaggacg   1860
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ccagctggat ggcaccgtcg aagccagagg acacggcagc agcacgggcc agcttgctga   1980
agtcgggagc gcccctacg tagagcggct ccttcaggtt gaggacggtg tgcggaacct   2040
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5316

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agaggcag                                                             7268
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<210> 6657
<211> 1778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1642)...(963)
<223> similar to gi3881701 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6657
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gaggacagga caaaaaggca tgagacagct ggacacctgg agagaggtga cacaggacag     180
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tccccgggga ttccgcctcg gacgctctga cccctgaccg ctctccccag gctccctgca    1740
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<210> 6658
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

5318

<222> (651)...(342)
<223> similar to gi9447 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6658
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gcccccata aagaaaaaaa tattaccttg ccagcccccg gaaaaattgg gcccccaag   180
ggttctttaa aaagggcccc cccttttttt ttttttgagg actgaaataa gagcatgata   240
tttcacaatg aaaataaaac caggccacgc aagaaccact gcggcctgcc cgtgacttgg   300
cttcccctgc ccagcatcct gtcctccctg gtccatctct ggtgaggacg gctgggagtg   360
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gggccaggcc cacgagcagg cgcagcaaca ggaaggcgca gggcacggcg atctgcatga   540
ggtggaagat gcccacactg aacctgctca gcaggcaggt ggaggcgaag gccagcaggc   600
tggcacaggg gtacagcgcc agcttggcga acatgagcac atgctcccgg ccgccaaacc   660
acaccgaggg ctgcagcgtc tccgcctggt gcagcagcgc cgtggtccac atggccagct   720
ggaagatgct ggccaggaag atgatggtgc agctgacacg cacgcgctcc agctcatcgc   780
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<210> 6659
<211> 3428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2305)...(1226)
<223> similar to gi2738898 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6659
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catgtctagg tgctgaccac ctggagcact tggccagcaa gtgggccgca tgctttggga   480
gcaatgggtg acccagcagg aagcacaaaa gaccggccag tgtgccatca tcaagggctg   540
ctgagcagct tgaagagcca ctgggtgggg agggcacacg gggaggtctc agctggggct   600
gcccctggag gacagggcag ggaacttgag ggctgaggac agaaatctca catgactcca   660
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gggcattggg gacaaggcca ggtcagaggg agacagtgtg ggcctggtgg gtggaccctg   840
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                                   5319

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caaaatagtg gtttaattga cgaattttac ttgcacctgt gccttcttca gatcctacct  1140
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<210> 6660
<211> 4362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (40)...(1563)
<223> similar to gi4240305 in the genepept database release 114,

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ggcgccgagc tgcgtgctcc gccagataaa atcgcgatta ttggagccgg aattggtggc     180
acttcagcag cctattacct gcggcagaaa tttgggaaag atgtgaagat agacctgttt     240
gaaagagaag aggtcggggg ccgcctggct accatgatgg tgcaggggca agaatacgag     300
gcaggaggtt ctgtcatcca tcctttaaat ctgcacatga aacgttttgt caaagacctg     360
ggtctctctg ctgttcaggc ctctggtggc ctactgggga tatataatgg agagactctg     420
gtatttgagg agagcaactg gttcataatt aacgtgatta aattagtttg gcgctatgga     480
tttcaatccc tccgtatgca catgtgggta gaggacgtgt tagacaagtt catgaggatc     540
taccgctacc agtctcatga ctatgccttc agtagtgtcg aaaaattact tcatgctcta     600
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ttagttaagg gggaattgaa tacatctatc tttagctcta gacccataga taaatttggc    1140
cttaatacag ttttaaccac tgataattca gatttgttca ttaacagtat tgggattgtg    1200
ccctctgtga gagaaaagga agatcctgag ccatcaacag atggaacata tgtttggaag    1260
atcttttccc aagaaactct tactaaagca caaattttaa agctctttct gtcctatgat    1320
tatgctgtga agaagccatg gcttgcatat cctcactata agccccgga gaaatgcccc    1380
tctatcattc tccatgatcg actttattac ctcaatggca tagagtgtgc agcaagtgcc    1440
catggagatg agtgccattg cagccccaca acgctgcact ccttgcctat caccgctgga    1500
acgggcacac agacatgatt gatcaggatg gcttatatga gaaacttaaa actgaactat    1560
gaagtgacac actcctttt cccctcctag ttccaaatga ctatcagtgg caaaaaagaa    1620
caaaatctga gcagagatga ttttgaacca gatattttgc cattatcatt gtttaataaa    1680
agtaatccct gctggtcata ggaaaacaca cggttctaat taagtgtgaa ggtatagcta    1740
ttgcacttat gccatctcca aaatttctta agtattcttt cactatccat taggagtttt    1800
tcttaaactt gtctgataat aagaatcacc tggagttagg aggtggtggt tgcagtgagc    1860
caatctcacc attgcacttc agcctgagca acacgagcaa aactccgtct caaaagtaaa    1920
taaaaataat cacctggagt ttgttaaacc atatggattc tcaagctcct ctcttgaaga    1980
ttctgattca gtaggtctgg gagtggcgcc ctggattttg atcaaaattg tagagcattt    2040
taaggtgagt acctgaggga gaacttaaag acatcttagt tggggagtag tccttttgaa    2100
ttttacagct agatataatc ttcagtcaga taaaatttat gggagctggt gtcttatgcc    2160
tgactcttag taatttcata ccggtttgaa gtacgtgtgc ccatgcctaa agccttgact    2220
ttcagaatgt tgtctttga ttcttctgtc ttgatttgat tagggtgaa atttagaagt    2280
cttagtaatg taacttgaag atgttaaaca aaaatctcaa gtaaaatgaa aagcaaatat    2340
gggctactga attaagaaac tggcattcta gtattaaatc ctcacttcag gagcttttaa    2400
aaatactgag accccccat aaccagagat tcagattcaa agactgagga taggacctta    2460
gcattgtagc tatttaaagt ttctaatgtg cacccagggt tgggaatcac caatgtgggt    2520
gtgaaaatgc ctacaaaggg tttagtgcc ttagaagtcc taagaagccc aatctgtatc    2580
aaagcagatc cattttgcaa ggatctttct tttagaactt tctcagttct cttagtaaga    2640
actttagaag taatcttgat aataagcaca gacagcctaa cagcagaggc aacttaaata    2700
actcctgagc agttggcact agaacagaat acttggaatg acaccaaagt taaccaagtc    2760
cagcatatgt ccaaagagtt aagtgtttca tttactgtag cattctgggt gagaaattgg    2820
ttgctgaaat cttaagacag tggtctcaac cttggctgca cattggaatc acctgtaggg    2880
ttttaaagca tccaaatggt aattaacagg cagcaaaact tcagaactag ttctgcatct    2940
actgtgcaaa gatcatgatt aactgtcaag acactggtag aacagaacaa gcaaaagatt    3000
aagagttcaa aagtaaatgc aaccaattta acatgtagtg ttattaaaaa attacaaagg    3060
```

```
cctagaccag cctgggcaac atggtgaaac cccatctcta caaaaaattt ttaaaaagtt    3120
ggccaggcat ggtaatgcgc gcctgtggtc ccagctgctc gggaggctga ggtgggagga    3180
tcacttgagc cttggaggtc aaggctgcag tgaatcatga tcatgccact gtactccagc    3240
ctgggcaaca gagaccatct taaaaaaaaa aaatccttcc attgaataga aacttcaaag    3300
tccttcatca gatcatggca ttagctactt tagcaaaata gtgtaaactt tggttctgag    3360
taaaaatgac ttcttcccta ccacagttgt gaatgttaat atgctgataa aactgccaag    3420
atatatttga taggtagggg attaaactca tggtttgtca aaagagtgtt ttttctagt     3480
tttattctta acagatatgt tgaggtattc atatttgttt ccttttgtgg ttttaatgaa    3540
gacaatttgt aaagtaatac tgttatgtat atgctaaatg ttggtaaata ctaattaatt    3600
tccatcattt gtagacttgt tttgcaatgg gatatatttt tacttataat accaatttag    3660
gctgggcgca gtggctcacg cctgtaatcc cagcactttg ggaggccaag gcaaacggat    3720
cacgaggtca ggagatcaag accatcctgg ccaacatggt gaaaccccat ctctactgaa    3780
tacacaaaaa ttggctggac atggtggcgc atgtctgtaa tcccagctac tgtaatctca    3840
gctactcggg aggctgaggc aggagaattg cctcaaccgg gaggcggagg ttgcagtgag    3900
ccaagattcg caccactgca ctccagcctt ggcaacagag cgagactctg tctcagaaaa    3960
aaaaaaacaa aaaccagttt aggctgggta tggtggctca ccagcacttt gggaggctga    4020
ggcaggtgga tctcttgagg tcgggagttt gagaccagcc tggccaacat ggtgaaaccc    4080
tgtctttact aaaaatacaa aaattagcca ggcatggtgg cgtgtgccag taatcccagc    4140
tacttgggag gctgaggcgc gagaatcgct tgaaccctgg agatggaggt tgcagtgagc    4200
agagatcgca ccactgcact ccagcctggg caagagtgag actgtgtctc aaaaggaaaa    4260
aaaaaaatt aaaaatgttg ctggtattac atcaaaccta ctctggataa attttccagt     4320
agggcatctg aaattgcttt ggcaaaagca aaacaggtta tc                       4362
```


<210> 6661
<211> 3050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)...(2061)
<223> similar to gi5052319 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6661
```
cggcacgagc gcccgcaacc ggggcgaatc atggcggccg ccaaggtggc tttaaccaag     60
agagcagatc cagctgagct tagaacaata tttttgaagt atgcaagcat tgagaaaaac    120
ggtgaatttt tcatgtcccc caatgacttt gtcactcgat acttgaacat ttttggagaa    180
agccagccta atccaaagac tgtggaactt ttaagtggag tggtggatca gaccaaagat    240
ggattaatat cttttcaaga atttgttgcc tttgaatctg tcctgtgtgc ccctgatgct    300
ttgtttatgg tagcctttca gctgtttgac aaagctggca aaggagaagt aacttttgag    360
gatgttaagc aagttttttgg gacagaccac aattcatcaa catattccat ttaaactggg    420
attcagaatt tggtgcaact acattttgga aaagaaagaa aagacacct gacatatgcg     480
gaatttactc agtttttatt ggaaatacaa ctggagcacg caaagcaagc ctttgtgcaa    540
cgggacaatg ctaggactgg gagagtcaca gccatcgact tccgagacat catggtcacc    600
atccgccccc atgtcttgac tccttttgta gaagaatgtc tagtagctgc tgctggaggt    660
accacatccc atcaagttag tttctcctat tttaatggat ttaattcgct ccttaacaac    720
atggaactca ttagaaagat ctatagcact ctggctggca ccaggaaaga tgttgaagtg    780
actaaggagg agtttgttct ggcagctcag aaatttggtc aggttacacc catggaagtt    840
gacatcttgt ttcagttagc agatttatat gagccaaggg gacgtatgac cttagcagac    900
```
```

                              5322
```

```
attgaacgga ttgctcctct ggaagaggga actctgccct ttaacttggc tgaggcccag    960
aggcagaagg cctcaggtga ttcagctcga ccagttcttc tacaagttgc agagtcggcc   1020
tacaggtttg gtctgggttc tgttgctgga gctgttggag ccactgctgt gtatcctatc   1080
gatcttgtaa aaactcgaat gcagaaccaa cgatcaactg gctcttttgt gggagaactc   1140
atgtataaaa acagctttga ctgttttaag aaagtgctac gctatgaagg cttctttgga   1200
ctgtatagag gtctgttgcc acagttattg ggagttgccc cagagaaggc cataaaactt   1260
acagtgaacg attttgtgag ggataaattt atgcacaaag atggttcggt cccacttgca   1320
gcagaaattc ttgctggagg ctgcgctgga ggctcccagg tgattttcac aaatccttta   1380
gaaatcgtca agatccgttt gcaagtggca ggagaaatca ccactggtcc tcgagtcagt   1440
gctctgtctg tcgtgcggga cctggggttt tttgggatct acaagggtgc caaagcatgc   1500
tttctgcggg acattccttt ctcggccatc tactttccgt gctatgctca tgtgaaggct   1560
tcctttgcaa atgaagatgg gcaggttagc ccaggaagcc tgctcttagc tggtgccata   1620
gctggtatgc ctgcagcatc tttagtgacc cctgctgatg ttatcaagac gagattacag   1680
gtggctgccc gggctggcca aaccacttac agcggagtga tagactgctt tagaaagata   1740
ctgcgtgaag aaggaccaaa agctctgtgg aagggagctg gtgctcgtgt atttcgatcc   1800
tcaccccagt ttggtgtaac tttgctgact tacgaattgc tacagcgatg gttctacatt   1860
gattttggag gagtaaaacc catgggatca gagccagttc ctaaatccag gatcaacctg   1920
cctgccccga atcctgatca cgttgggggc tacaaactgg cagttgctac atttgcaggg   1980
attgaaaaca aatttggact ttacctacct ctcttcaagc catcagtatc tacctcaaag   2040
gctattggtg gaggcccata ggaagatcag ccctgggata gtgctgtctt tttgtgggta   2100
ctgcagtaaa gaacatccct cctgggaatg aagcaatgct tcatcccttt tacgtccatc   2160
tcttgtttaa attcaagtcc aggctttttt atcatgtgaa atcattcatt ttctgggtgt   2220
tttcttaacc agatcattgt gaaattattc ataattatta tttggccctc tgcccagaaa   2280
cctttgtttg catctgaaaa ttgatgggat ttggtcaaca ctaacatgat ttggggaaag   2340
gagcaagtca gaatagaaat tagtactccc ctccttgaac taggattgta gtcccaaaga   2400
ggctactgta aggcaatcat ggtgctcaga gcagtgtttc gtgtgtgttt taaactggta   2460
ggaaactagg tgcatattta taaaaataaa aaacactggg agaaatgaaa aaatatatat   2520
caaatatatt cagcctggct tcaaattgta agcatgcaca aattctgtct ctggattata   2580
ttatgaagct tttatgtgaa acatgtttct ttgtaatgaa aaccacattg gagatgttta   2640
gtaatcatat tgttactggt acccaagact acctagggaa atgccctttg tacctttagg   2700
gaagtacttt tggcatttta ctgtacagac agaaaaaact gagatgtagc ccctctccct   2760
ggaagtgcct aattttgaaa aactgcctca tatgatgtac atgtactgat tactgcctat   2820
tttaataaac actcttgaaa aatgcatgtt gccctgttgc tgcctgccct attctcctca   2880
atctccccat cattggtacc caacttgctt ttaaaatcca ctttatcttg aataatgtaa   2940
gacaaatatg ttctgacata agtatttaat tcatgttgcc ttgcataatg gtcagaggcg   3000
catgaatttg tgaaggtgga aataaactat ttgtaaagtg aaaaaaaaaa              3050
```

```
      <400> 6662
cttcctttcc ccctttgctt tcttcccct ccgctgttgg cgagggcaaa gtggccgtgg      60
```

```
cggcgccatg cccgggccgg agtgagtgcg cgcgggcgaa aatggcgtac atccagttgg    120
aaccattaaa cgagggtttt ctttctagaa tctctggtct gctgctgtgc agatggacct    180
gccggcactg ctgtcagaag tgctacgagt ccagctgttg ccagtcaagt gaggatgaag    240
ttgaaattct gggacctttc cctgctcaga cccctccctg gctgatggcc agccggagca    300
gtgacaagga tggtgactct gtccacacgg ccagcgaagt cccgctgacc ccacggacca    360
attccccgga tggaagacgc tcgtcctcag acacatccaa gtctacatac agcctgacgc    420
ggaggatttc gagtcttgag tcaagacgtc ccagctctcc actcatcgat attaaaccca    480
tcgagtttgg cgttctcagc gccaagaagg agcccatcca accttcggtg ctcagacgga    540
cctataaccc cgacgactat ttcaggaagt tcgaacccca cctgtactcc ctcgactcca    600
acagcgacga tgtggactct ctgacagacg aggagatcct gtccaagtac cagctgggca    660
tgctgcactt cagcactcag tacgacctgc tgcacaacca cctcaccgtg cgcgtgatcg    720
aggccaggga cctgccacct cccatctccc acgatggctc gcgccaggac atggcgcact    780
ccaacccta cgtcaagatc tgtctcctgc cagaccagaa gaactcaaag cagaccgggg    840
tcaaacgcaa gacccagaag cccgtgtttg aggagcgcta caccttcgag atccccttcc    900
tggaggccca gaggaggacc ctgctcctga ccgtggtgga ttttgataag ttctcccgcc    960
actgtgtcat tgggaaagtt tctgtgcctt tgtgtgaagt tgacctggtc aagggcgggc   1020
actggtggaa ggcgctgatt cccagttctc agaatgaagt ggagctgggg gagctgcttc   1080
tgtcactgaa ttatctccca agtgctggca gactgaatgt tgatgtcatt cgagccaagc   1140
aacttcttca gacagatgtg agccaaggtt cagaccccctt tgtgaaaatc cagctggtgc   1200
atggactcaa acttgtgaaa accaagaaga cgtccttctt aagggggcaca attgatcctt   1260
tctacaatga atccttcagc ttcaaagttc cccaagaaga actggaaaat gccagcctag   1320
tgtttacagt tttcggccac aacatgaaga gcagcaatga cttcatcggg aggatcgtca   1380
ttggcccagt actcttcagg cccctctga gcccaaccac tggaggcgca tgctcaacac   1440
gcaccgcaca gccgtggagc agtggcatag cctgaggtcc cgagctgagt gtgaccgcgt   1500
gtctcctgcc tccctggagg tgacctgagg gctgcaggga aggcagcttt catttgttta   1560
aaaaaaaa                                                             1569


        <210> 6663
        <211> 620
        <212> DNA
        <213> Homo sapiens

        <220>                     .
        <221> misc_feature
        <222> (310)...(95)
        <223> similar to gi552415 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6663
tttcgtcagg tgttacattc tctgaacctg ttagacccaa gagagccttc cagtgattaa     60
aaaaccctca tctcaaaggt gtcagagtcc ctctgagaac atctgctctg tgttccttgt    120
gcacagctgt gtgtggatga gtgtgcgagg gcgtgtgcga ggctgtgagc atgaccatgc    180
atgtgtataa gtgcgagtgt gcaagggcgt gcgaggctgt gagcacaact gtgcatgtgt    240
atgaattgca tgcgtgtgca catatgtgca tgtgaatgtg agtgtacaag tgtggatgtg    300
cacacacccg cccacagacg tctcagtgtt ctacctgat tttggtacct agtccagccc    360
cacagctcag catgtgagca cattcgctgc ccatcatctg tccaggcctg aatggagggg    420
cttccatttt cagcgctaac aagggcacgg ctccccagat gcctcgctgg cgctgggccc    480
ggcctctgcc ctgctctcac ttggctcttg ctgaagcctc cccaggctcc gtgggagtgg    540
ccagttgaga ctcgccacac tcagtgcctg agattccact accagcatca gcttcggggc    600
tttctgcact ttccagtcat                                                620
```

5324

<210> 6664
<211> 2108
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2109)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (604)...(1425)
<223> similar to gi487836 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6664
```
gactaccatg ataaaagaat tttcaaggaa ctgaaatcca gtgacaaaaa tgaaatcgat      60
caaggctgta gttgcacacc tgagacattc ctcgagaagg cagaggagaa aggtgtgaaa     120
aacagtgaac cagagaagga tggccaggga caacaaagat tggagctcgg aagttgaatg     180
acagatattc tggagaaaca caccagagat gacaaaaggg tttgtcaaac acagcccaac     240
tcaactggag tcctgagaag gtgaccagac caggatggag gcccagggaa ctcaccagaa     300
gtccccatgc atcagaacaa ggtcgaagca tcctgacgga gtctcgctct ttcgcaaggc     360
tggagtgcaa tggcatgatc tcggctcact gcagcctccg cctcctgggt tcaagtgatt     420
cttctgcctc agcctcccga gtagctggga ctacagaaat gctggtaatt tcagtcactt     480
gctgatgact tctgatgtcc cagcaaatgt tggcattgtt gactgctgag aagatacttc     540
tgaggaccca cgtctaaggt ggacttggtt cgcactcttc tggttagtcc ctgaacagga     600
gtgatgcctc caggcaggtg gcatgctgcc tatccagctc aggcccagtc ttcgagggag     660
cgagggcggc ttcagacagt aaagaaggaa gaagaggatg aaagctatac tccagtgcag     720
gctgccaggc cacagactct caaccgccct ggccaggagc tgttccgcca gctcttcaga     780
cagcttcgct accatgagtc ttcagggccc ctagaaactc tgagccggct ccgggaactc     840
tgtcgctggt ggctgaggcc tgacgttctc tccaaggcac agatcctaga gctgctggtg     900
ctggaacagt tcctgagcat cctgcctggg gagctccggg tttgggtgca gcttcataac     960
cctgagagtg gcgaggaggc tgtggccttg ctggaggagc tgcagaggga ccttgatggg    1020
acatcctgga gggacccggg ccctgcccag agcccagatg tgcattggat gggtacagga    1080
gccctgcgat ctgcacagat atggtccctt gcttcacctc tcaggagcag ctctgctctg    1140
ggggaccacc tggagcctcc ctatgaaata gaagcacgtg acttcctggc tgggcaatcc    1200
gatactcctg ctgcccagat gcctgccctt ttcccgagag aggggtgccc gggagaccag    1260
gtaacaccaa ccaggtccct gacagcccag ctccaggaga ccatgacttt caaggatgtg    1320
gaggtgacct tctcccagga cgagtggggg tggctggact ctgctcagag gaacctgtac    1380
agggatgtga tgctggagaa ttataggaac atggcttccc tgggtaagta atcgatatcc    1440
tcatgcttct atccatcttt atttctgcct tcttgggttg ttctgtgctg catagaaagg    1500
tacctgacct ggtttttagat cctggctctg taactgctga ccagatcact taatctagca    1560
ccttggtagc ctcttttgaa aaatggggag aataatgcct gccattctgg attattgtaa    1620
agattaaagg tggcggggcg tggtggctca cgcctgtaat cccagcactt gggaggccg     1680
aggcaggtgg atcatgaggt caggagttcg agaccagcct ggccaacatg gtgaaacccc    1740
atctctacta aaaatacaaa aattagccgg gtgtggtggc gggtgcctgt agtcccagct    1800
actcgggagg ctgaggcaga agaatcactt gaacctggga ggcggaggtt gcagtgagct    1860
gagatcatgc cattgcactc cagcctggcg acagagcgag actcattctt cttttatact    1920
```

5325

```
tttgaggtta tgtacgtctt tcattctctt tcgccttact ccgggcacgg cctcccggcc    1980
tcggcctcac tcagctcagg caccgcaggc accgtttggc cgcgggctcc gtaaagctgg    2040
aacccttcag agccggagcg ccgccacgaa atcgtcgacc caggatgtnn naancggtac    2100
cgcaggtg                                                             2108
```

<210> 6665
<211> 681
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (531)...(247)
<223> similar to gi65184 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6665
```
tttcgtggtg acatcacgga cagggcgact tctatgtata tgaggcagcg cagaggctgc     60
tgcttcgcca cttgctgctt cgccacgaag gagttcccgt gccctgggag cgggttcagg    120
accgcggatc ggaagtgaga atcccagctg tgtgtcaggg ctggaaaggg ctcgggagtg    180
cgcggggcaa gtgaccgtgt gtgtaaagag tgaggcgtat gaggctgtgt cggggcagag    240
cccgaagatc tcatacttac ctggcagggg agataccatg atcacgaagg tggttttccc    300
agggcgaggc ttatccattg cactccggat gtgctgaccc ctgcgatttc cccaaatgtg    360
ggaaactcga ctgcataatt tgtggtagtg ggggactgcg ttcgcgcttt cccctgcctt    420
actggaagtt gaaaggtagt tgttattatg atcggtgctg ggtctggtac gtgtggtgtt    480
taaaacacgg gctgctgggc agttcgcttt cgttttcacg tttttgtggg ggtagggcga    540
ttgcagcttt ttttctcacc ccgcggggga tcctttagta acgcgccaat tatactgtgg    600
gtttatgttc tccagggtat tgtcgtgaaa acgtcacgat ctcgtgcttt ctccaggcca    660
aagccgcgtt tttcctgcaa g                                              681
```

<210> 6666
<211> 5681
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (199)...(3295)
<223> similar to gi2443338 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6666
```
tttcgtgtcc gctcggccgg gtgcgccgcc ccagtgctct gtgggatact ggaagtctcg     60
```

```
agcgtcggct ccgggttccc agccctcctc tggcccgcac tcatagaaac attcacacac     120
cccctgcctc ccctctcttc cctctccgcc tccccttcc ccccctcgcg ataagaagac     180
ccggcggcag gagaggggat gaagatggcg gacgcgaagc agaagcggaa cgagcagctg     240
aaacgctgga tcggctccga gacggacctc gagcctccgg tggtgaagcg ccagaagacc     300
aaggtgaagt tcgacgatgg cgccgtcttc ctggctgctt gctccagcgg cgacacggac     360
gaggtcctca agctgctgca ccgcggcgcc gacatcaatt acgccaatgt ggacggactc     420
actgccctgc accaggcttg cattgatgac aatgttgata tggtgaagtt tctggtagaa     480
aatggagcaa atattaatca acctgataat gaaggctgga taccactaca tgcagcagct     540
tcctgtggat atcttgatat tgcagagttt ttgattggtc aaggagcaca tgtaggggct     600
gtcaacagtg aaggagatac acctttagat attgcggagg aggaggcaat ggaagagcta     660
cttcaaaatg aagttaatcg gcaagggggtt gatatagaag cagctcgaaa ggaagaagaa     720
cggatcatgc ttagagatgc caggcagtgg ctaaatagtg gtcatataaa tgatgtccgg     780
catgcaaaat ctggaggtac agcacttcac gttgcagctg ctaaaggcta tacggaagtt     840
ttaaaacttt taatacaggc aggctatgat gttaatatta aagactatga tggctggaca     900
cctcttcatg ctgcagctca ttggggtaaa gaagaagcat gtcgaatttt agtggacaat     960
ctgtgtgata tggagatggt caacaaagtg ggccaaacag cctttgatgt agcagatgaa    1020
gacatttttag gatatttaga agagttgcaa aagaaacaaa atctgctcca tagtgaaaaa    1080
cgggacaaga aatctccact aattgaatca acagcaaata tggacaataa tcagtcacag    1140
aagacctta aaaacaaaga gacgttgatt attgaaccag agaaaaatgc atcccgtatt    1200
gaatctctgg aacaagaaaa ggttgatgaa gaagaagaag gaaagaagga tgagtctagc    1260
ttgcttctag tgaagaagat gaggaagatg actccggaat cagaagctga aacagataag    1320
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tgcaacttgg aggttaggac ttagaaagac gggcagctat ggtgcacttg ctgaaatcac    1560
agcatctaaa gagggtcaga aagaaaaga tactgcaggt gttacacgtt cagcttcaag    1620
tcccagactt tcctcctctt tggataataa agaaaaggag aaagatagta aaggaactag    1680
gcttgcatat gttgcaccta caataccaag acgactagcc agtacatctg acattgaaga    1740
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ggaagatgat cttaaaaaaa atagctcagt taatgaagga tcaacgtatc ataaaagttg    1860
ctcctttggt agaagacaag atgatttgat tagttctagt gttccaagca ccacatcaac    1920
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tacaaagatt acaacgggtt cttcctcagc aggcacacaa agcagtacct caaatcgttt    2040
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tgttgctcca actgttgtaa atgctgcagc ttctaccaca accctgacta caactactgc    2160
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aagatcaaca cagggagtga cattaactga tcttcaagaa gctgagaaaa caataggaag    2340
aagtcgttct acccgaacca gagaacaaga aaatgaagaa aaagaaaaag aggaaaaaga    2400
gaaacaagat aaagagaaac aagaagaaaa gaaggagtca gaaacatcta gagaagatga    2460
atataaacaa aagtactcca gaacgtatga tgagacttac cagcgttata ggccagtatc    2520
aacttcaagt tcaaccactc catcctcttc actttctact atgagcagtt cactgtatgc    2580
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aataacaaaa gaaaatgaaa gagagggaga aaaaagagaa gaggagaaag aaggagaaga    2700
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aaagctttat gaacaaattc tagctgaaaa tgaaaagctg aaggcacagc tacatgatac    3060
aaatatggaa ctaacagatc ttaaattaca gttggaaaag gccacccaga acaagaaag    3120
atttgctgat agatcactgt ggaaatgga aaaaagggaa cgaagagctc tagaaagaag    3180
aatatctgaa atggaagaag agctcaaaat gttaccagac ctaaaagcag acaaccagag    3240
gctaaaggat gaaaatgggg ccttgatcag agttataagc aaactttcca aataaaaaaa    3300
aaaaagcagc aagtaatgga attgcacata ttagtaaccc agtggaccat aattggcagt    3360
cactggaagt ctgggaagaa tccttggaga ctgtcatttt cggatatcct gccaaatgcc    3420
ctcttatcta gaattttgt ttcatttgt ttaattttct ggggtgtttt tgttgttgtt    3480
```

5327

```
ggtttgtttt ttgttttttt tttttaatca agaccattgt ttcatgttaa tgcagctgct   3540
gagaagattt tttttttaatg actgaggaaa acttgtttac agctccagca tataaggaaa   3600
gtgttcaagg ccagatatgc ctcagatatt taacccagta aggccttagt tgtaccataa   3660
atactttgt ggtcaacaaa aacttttcag ctcttcacag aagacagtta ctcaacattt    3720
tttggatgtg ccacagtttc gagttttttcg atatttaaat ttttttggctt ttcatctaag  3780
tttgggtttg tatttttttcc ttctaaactc ttcatgtggc agagtcttct atgttttcac   3840
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tttgtgcaat atgcatttat ttcttatatg aatgctttaa agtcatttga ggttagatct    4020
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tctgctaatg cagagtaggc tactccatga tagtgttaaa aaacaaaatt tgctaacaat    4260
gtgatataaa gactttaaaa gttacacatt atgtggagcc ctatcatctt tacaaaagtt    4320
tcctactgta aagtgctttt attttcagtt ttcatttgat agtactcaac cataattaaa    4380
gttgcataag ataattgctt tacatttcac atacctatat ttatctgagt gctgtctaaa    4440
actgttgtgc tagccaaagt aatgctatga aatcatttgc agaattaacc cgtgagttaa    4500
tgttaaatgc actgttattg ccatgtgaag aggcatcgac tttgatacca ccatcatgtt    4560
cagaccattt tatacatttc agtggccttt tttttttta aggaaaaaaa agcgcaaaac     4620
caagtacata gtgacgatgg cttttatttg gacaaatagc ttttatattt tcattaaacc    4680
atgcaaaaaa tactacatct ttctggcaca taactgtctc cttaaccact gaacagttca    4740
gccatttgaa taaattgtac attgtaaagc ttatagtagc tgattgtatt attgattgta    4800
ttgtatacta tattaaatgt gaatttgtac cccttcattt taaaaggtca ttgtgttcta    4860
ctgcctattt tagattactt tggggttggg gaagggtgtt ttggtaagca ggatttttaag  4920
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ggattcttga ttttaaaggt acaaggatag ttgtgggagt tttatttttg gttatatttg    5040
aactgtatga atggtaggtc tgaatattga gaatttccat ggtcttatgt ggaggtaaaa    5100
tatacagata actgatcagt ttgagtgact gcaacatgtt ctggttgcac aacagttagg    5160
catgctatgg tttatatttg tgaagtttgg atgcctgtga agaatgatta aatacatgtt    5220
tctaatattt tagtgtttttg tatttaggtt atttattctt tgtatctaaa actgaacagc   5280
tactgtgcta tattgatttt attggtagta ttgagcagac cttgtttctg catgaaacta    5340
gttgcaaaac ccactatttt ggaaataaaa atgtattttg acatatacaa ataaaatgaa    5400
taaaactatt ttaaatgtgt gaactttttaa tgaagacatt ttaaattttg ttctgagata   5460
tttaaattct gcatgggtat tttttcacta attgctttac ttggatacca atttgaataa    5520
tttctgaaat tgtaatattg tgataatttg cacagcattg tacatgcaca tctgtaaatg    5580
caatcttaat tgccatattt atgcaatcct gtgtaccaat ttggacaaat gtttatatat    5640
tttacataaa gctgtctgta tgcagaatct gaaaaaaaaa a                        5681
```


        <210> 6667
        <211> 1886
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (357)...(1885)
        <223> similar to gi2708628 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6667

                                    5328

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cgatctgctc caagtagggg ctccagcgcg ggtcggagtc tgggggttcg cgcccgccga        60
cccgcgccct gctccctctc agcacctggg cggacgaaat gaccattaag aagtagatgc       120
ccagatgcaa aagtgatgaa acagtccatt tgtcataaag taagatgcag ctgtggcatg       180
tcaaccagct tggaacaaaa ttgtatctgt ttttctcaga agagaattcc acaaggttaa       240
atcagcaaac aaagaaaaca tggtattttg aaatatgatt aaactcctga tgctgcagca       300
gaggctaaga atattaatgg ccagatctag tgcacacatg gtcttctgaa gaagccatgg       360
gtagctgttg tagctgtcca gataaagaca ctgtcccaga taaccatcgg aacaagttta       420
aggtcattaa tgtggatgat gatgggaatg agttaggttc tggcataatg gaacttacag       480
acacagaact gattttatac acccgcaaac gtgactcagt aaaatggcac tacctctgcc       540
tgcgacgcta tggctatgac tcgaatctct tttcttttga aagtggtcga aggtgtcaaa       600
ctggacaagg aatctttgcc tttaagtgtg cccgtgcaga agaattattt aacatgttgc       660
aagagattat gcaaaataat agtataaatg tggtggaaga gccagttgta gaaagaaata       720
atcatcagac agaattggaa gtccctagaa cacctcgaac acctacaact ccaggatttg       780
ctgctcagaa cttacctaat ggatatcccc gatatccctc atttggagat gcttcatccc       840
atccgtcaag cagacatcct tctgtgggaa gtgctcgcct gccttcagta ggggaagaat       900
ctacacatcc tttgcttgtg gctgaggaac aagtacatac ctatgtcaac actacaggtg       960
tgcaagaaga gcggaaaaac cgcacaagtg tgcatgttcc attggaggca agggtttcta      1020
acgctgaaag cagcacacca aaagaagaac caagtagtat tgaggacagg gatcctcaga      1080
ttcttcttga acctgaagga gtcaaatttg ttttagggcc aacccctgtt caaaagcagt      1140
taatggaaaa agagaaactg gagcaacttg gaagagatca agttagtgga gtggagcaa      1200
ataacacaga atgggacact ggctatgaca gtgatgaacg aagagatgca ccctctgtta      1260
acaaactggt gtatgaaaat ataaatgggc tatctatccc tagtgcctca ggggtcagga      1320
gaggtcgtct gacatccacc agtacctcag atacccagaa tatcaacaac tcagctcaga      1380
gaagaactgc attattaaac tatgaaaatc taccatcttt gcctcctgtt tgggaagccc      1440
gcaagctaag tagggatgaa gatgacaatt taggaccaaa gaccccatct ctaaatggct      1500
accataataa tctagatcca atgcataact atgtaaatac agagaatgta acagtgccag      1560
caagtgctca caaatagaa tattcaaggc gtcgggactg tacaccaaca gtctttaact      1620
ttgatatcag acgcccaagt ttagaacaca ggcagcttaa ttacatacag gttgacttgg      1680
aaggtggcag tgactctgac aaccctcaga ctccaaaaac gcctacaact cccccttccac      1740
aaacccctac caggcgcaca gagctgtatg ccgtgataga catcgagaga actgctgcta      1800
tgtcaaattt gcagaaagca ctgccacgag atgatggtac atctagggaa aactagacac      1860
aatagtactt gatctgcccc tgtgag                                          1886
```

<210> 6668
<211> 2003
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2004)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1197)...(222)
<223> similar to gi4884104 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6668

5329

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cctctgcttg ccccagctcc accccaaagc ccctcaaaag gataggtgtg ggtaagggag       120
aagcttggga tggaatgtcc cctatccctc agaagactgg agggaagacg acggtctgtg       180
caaataggtc accagaggtg tatgtgtggg gggttattag accaggataa caggggaaga       240
gggagggggac agtgggggat ctgttgaagg cccaggaaaa acaaggggag ctggggctaa      300
ggaaccaaag gaggtgggaa gagtgggggct agaacccaaa agtggggtcc tttctgaggc      360
agggtggtcc cttggctccc cttcatcacc ctcctcttgc ccttgagttt cttcctcttg       420
gtcttcgtcc ccaggacccc gatgaacagg ctgcttgcaa atggggcagg tcttccgggt       480
ctgagtgagc caggggtcca cgcagcggct gtggtaggca tgagcacagg ggagtacccg       540
cagcttgtcc ccatcctcat attcatccag gcaaatggca cagacatcat actggtctcc       600
cttctgatag tcatgtgtag gaaatctgtt tcagttgctc ctttggtaag tcgattccgc       660
tggagccgtt tccggtgctg gatacaacga gctatcatta ctgctcccat ggccaaaacc       720
agcagtccca caatccctgt gaaagggatg aggtaatagc ccaaggggaa ggtattgtct       780
ggaaccagaa gcacccgagc ccccttctcg tagacaaaga gggcacgcag gtactcggag       840
cttctctccc caataaatac agacgggatc cagatctgct gctggatttc ctcactattc       900
cacaccatgt tcagaagttc attggaattc acattgtgta ctacagcggc accatatcca       960
gccttctggg catttaggac cttgaggtca aagttgcagt cgaatcttcg aagcagcgca      1020
ataaagactg acccattgac cggggctggg ggtggtgggg caatggggct gcaggcattg      1080
tctgggtgag cctccacaag gaacccctgg aggccctcct ggctcaaggt agccccaaac      1140
agagctggaa ggtctgcaaa gtccatgctg gcattgtggt ccgaggtcgc tcgaatgagc      1200
ccccgggtcg gggccgctcc ccacagcaca gcggccacaa ccacaggaag cgggaaggct      1260
gcagggtgca tggcagcggg aggaaagagg ctgaggaggc cgcgcgtcct ggtagcaagg      1320
agcagaagcg gagttctgcg ccctccctgc ccctccttta ggatcccagg ggtccaacca      1380
cccccaggtc ccacttccca gctacatggg ggcgccgggg aaggaacacc aactcaaaga      1440
atgagatatc caacccgttt agtggagctg ggtgggaggc actaaatgta tccttttctg      1500
gtacggggat aaaacgcgga aaggggacgg agcctaacac aggtgacaga aaaacttcgg      1560
gaagggtggc ggagctcaag gaggtgggac ttcctgctag gtgggccgtg ttcccagcct      1620
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aaggacttcc ggtcctctcc tccctctggc ctccgccgct ccttcaaatc tcgcgagagt      1740
gctcaccacc tctcccgtcc cctcgcagct gaatagttgc tgtgtctatc gcgagagcgc      1800
tccaacttgg cgagccgtac tcactcgatc tcgcgagacc ttcaaacaaa ctcttctcta      1860
ttttcccgcg attctaattc ggtgaaaaca gcgcctttcc tctggtttcc aaatcagtta      1920
cgccccttct cgcacgcttc catcaagctc ctcctntcan tccgccttac tcccggccgc      1980
tctgttgctn cgcnctngcc cgc                                             2003
```

<400> 6669

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ctgccattca acactgatga catctcagtc gtgagccgca cagtgggctg agtcctggtc     120
actgcacatc tgcagccagc tgtgcaatca agtctttggc atcttgcatg gtggagggta     180
tctctgagcc attcttagtc aggtaagggt tccaaaccaa gaacatcttc ctgtcatttc     240
ccacttcaga taatggccaa agcttcatgg atatctgtaa tgtgataggc tgcttcaaga     300
tcctgtttgt ttgcaaacac aaccagagga agtactgggt ttgctgcaat tagctgatga     360
aggtatttct tggctttcca ggtaatcggc tgtgaatcct gcttgaatcc aaccnagaaa     420
gatctagcca gcgaatcccg ttggataggt acatttccca gtaggaccga aaaggtttac     480
tgccaccaat ctccaggaac tccatctggc tgtcttcagt gttgatgcaa actgcatgga     540
aaccttgggt gggtgccaca ctgtgctgga ctctgtttga agctagagag tgcaggacac     600
tggttttttcc tgctccatcc aggcccagca ctaggatttg cttgtttttc tccagcggct     660
cgagcggggt ccttgtcaag gtgctgtcct tgttctcccc tttctcttct tgtcccttaa     720
attgttcctt ctctttgttt gtctccttcc cttgctttgt cctcttttcc tctttctctt     780
ttcccttttct cctctcctgc ttctcttgct tttcttgttt aattttctgc tccacctcct     840
ttcttttcac tttctcttcc ctaccctttt ctccgatttt ctccttctgc gtctcctttt     900
ccttctcttt cttcttcact ttccccctct ccatccccag cgccgcggtt tccttccctc     960
ccgccgcgtg cccgcgtgct gagcggtggc tctgggcccc aggtgtggct cccgaggtgc    1020
acgcccgaca cgaaatcgtc gatnnngaat tcagaaccgg t                       1061
```

<210> 6670
<211> 1480
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1481)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (164)...(955)
<223> similar to gi5817194 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6670

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ctcaagaggc tgaggcagga gaatcacttg aacccggaag gcagaggttg agttgagctg      60
agatcgtggc attgcactcc agcctaggca acgagagcga aactctgtct cagaaagtat     120
actctgggtc taataatctg cctccttcag gaatattcat tcctcttgtt gcccgctgga     180
tcccggcgct gttcatcggc ttcagccagt tctcggactc gttcctcctg gaccagccca     240
acttctggtg ccgcgggggcc ggcaaaggca ccgagctggc aggggtcacc accacaggcc     300
ggggcgggga catgggcaac tggaccagcc tccccaccac ccccttcgcc actgccccct     360
gggaggctgc gggcaaccgg agcaacagca gcggcgcgga cggaggcgac acaccacccc     420
tgccatcccc tccggacaag ggggacaacg cctccaactg tgactgccgc gcatgggact     480
acggcatccg cgccggcctc gtccagaacg tggtcagcaa gtgggatctt gtgtgtgata     540
atgcctggaa ggtccatatc gctaagttct ccttactggt tggattaatc tttggctacc     600
taataactgg atgcattgct gactgggtcg gccggcggcc tgtgctgctg ttttccatca     660
tcttcattct gatctttgga ctgactgtgg cactgtcagt gaatgtgaca atgttcagca     720
```

```
cactcaggtt ctttgaagga ttttgcctgg ctggaatcat tctcaccttg tatgctttac      780
gaatagagct gtgcccccct ggaaaacggt tcatgattac gatggtggcg agcttcgtgg      840
ccatggcggg ccagttcctc atgcctgggc tagccgccct gtgccgggat tggcaggtgc      900
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ggacacacaa tccccacact ttccactagt tgcagcttgt ggttctgtct gagaaggttt     1080
tcctctcttt ttaaaaaatt ttattgttta aactttctgt cttggaaaac tgttcaaata     1140
tacacaaaaa tagaagagtg gaatgagccc atcacccagc tccaaaaatc tgcaaatgca     1200
ctggccagtc tggctcaccc cttcttgcta cccaccccac ggggttattc tgacatgaat     1260
ttttatgaat ggattgcagg gaggtggagt tcttgtgtta ggagggggga tttggagata     1320
ttaaaggagt gatttacaaa agtcccccta tctcttctag gcgaggggtg ggcaaccttc     1380
agcctgtggg ccacatcagg cccactgtct gtttttgtaa ataaagtttt attggaacac     1440
nnnnnnnnnn nnnannnnnn nnnnnannan aaaaaaaaaa                            1480


        <210> 6671
        <211> 1690
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (486)...(1508)
        <223> similar to gi1325951 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 6671
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ggcaaagtgg catttatcat tctatctctc caggctcctg tctctttaat cagctagcct      120
gatttgccca gtaaatgatt cctgagagtg tgtgtgcgtg tgtgtgtgtg tgtgtgcccg      180
cgcgcgtgtg ttgtagctct gtcaatcctt ggattagaac caatgattgc agcttgtagg      240
agggctgtcc agggccagat tgtacaatgt gtctcagtgc cagagtatga gtggagataa      300
ttacggagaa gtcatactct ctcacaccct cggctttctt gttgtgtcct tcagcaaaac      360
agtggattta aatctccttg cacaagcttg agagcaacac aatctatcag gaaagaaaga      420
aagaaaaaaa ccgaacctga caaaaaagaa gaaaagaag aagaaaaaaa atcatgaaaa      480
ccatccagcc aaaaatgcac aattctatct cttgggcaat cttcacgggg ctggctgctc      540
tgtgtctctt ccaaggagtg cccgtgcgca gcggagatgc caccttcccc aaagctatgg      600
acaacgtgac ggtccggcag ggggagagcg ccaccctcag gtgcactatt gacaaccggg      660
tcacccgggt ggcctggcta aaccgcagca ccatcctcta tgctgggaat gacaagtggt      720
gcctggatcc tcgcgtggtc cttctgagca cacccaaac gcagtacagc atcgagatcc      780
agaacgtgga tgtgtatgac gagggccctt acacctgctc ggtgcagaca gacaaccacc      840
caaagacctc tagggtccac ctcattgtgc aagtatctcc caaaattgta gagatttctt      900
cagatatctc cattaatgaa gggaacaata ttagcctcac ctgcatagca actggtagac      960
cagagcctac ggttacttgg agacacatct ctcccaaagc ggttggcttt gtgagtgaag     1020
acgaatactt ggaaattcag ggcatcaccc gggagcagtc aggggactac gagtgcagtg     1080
cctccaatga cgtgggccgc gcccgtgggt acggagagta aaggtcaccg tgaactatcc     1140
accatacatt tcagaagcca agggtacagg tgtccccgtg ggacaaaagg ggacactgca     1200
gtgtgaagcc tcagcagtcc cctcagcaga attccagtgg tacaaggatg acaaaagact     1260
gattaaggaa agaaaggggt gaaagtggaa aacagacctt tcctctcaaa actcatcttc     1320
ttcaatgtct ctgaacatga ctatgggaac tacacttgcg tggcctccaa caagctgggc     1380
cacaccaatg ccagcatcat gctatttggt ccaggcgccg tcagcgaggt gagcaacggc     1440
```

                                          5332

```
acgtcgagga gggcaggctg cgtctggctg ctgcctcttc tggtcttgca cctgcttctc    1500
aaattttgat gtgagtgcca cttccccacc cgggaaaggc tgccgccacc accaccacca    1560
acacaacagc aatggcaaca ccgacagcaa ccaatcagat atatacaaat gaaattagaa    1620
gaaacacagc ctcatgggac agaaatttga gggaggggaa caaagaatac tttggggga     1680
aaagagtttt                                                           1690
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<210> 6672
<211> 4105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (49)...(3703)
<223> similar to gi3327194 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6672
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ccctctggtg tctcagctaa gttgaagcgc tggaagaaag gccacagcag cgacagcaac     180
cccgccatct gccgccaccg tcaggccgcc cgcagccgct tcttcagccg gccgtcagga    .240
aggagtgacc tgacagtcga tgctgtgaag ttacataatg agctgcagtc agggtccttg     300
cgcttgggca aaagcgaagc cccggagacg cccatggaag aagaggcgga gctggttctc     360
accgagaagt cctcgggtac cttcctgagt ggcctttccg actgcacaaa cgtcaccttc     420
agcaaagtac agcgcttctg ggagtccaac tcggctgccc acaaggagat ctgtgctgtt     480
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gaattcatgt ttgaaaaggc ccctgcccat catcctgctg ccatttccac tgccaagttc     660
tgcatccagg agattgagaa gtctggaggc tccaaggagg ccaccaccac gctgcacatg     720
ctgacgctgc tgaaggacct gctgccctgc ttcccggaag gcctggtgaa gagctgcagt     780
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                         5333
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tttaccagat tgtctgtcct ggacctggtc gtggccttgg ctccgtgtgc tgacgaagct    2100
gccatcagta agctatactc caccatccgg ccctacctag agagcaaggc ccacggggtg    2160
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tttagggaca ggaggcattg gtaggggatt agatgtagca gcagtcaggc tgggatcaag       180
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cggttggaat gattctgggg gcagaagctc agagccccct agtaggaatg gaggcggccc       480
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cagagctgcc tgctgcagtc acacttaggt catcttctct cactttctc cttttgccga       1860
ttagtggacg tgacagagat gtgaatgggg cagggatgtc ctttgatggc atcaagactt      1920
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taacctccca aatacagggt tcacctgtac ccaagccctt agctcaagaa tacaggatca      2580
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<210> 6674
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

5335

<222> (547)...(424)
<223> similar to gi488524 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6674
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cgatggtgaa ctgcctaact ctaccacatc ccgatggtga actgctaact ctgccacatc   180
ccgatggtga actgctaact ctgccgcatc ccgatgggga actgccaaac tttacctcgt   240
cccgatggtg aactgcctaa acctcttccc gatggtgaac tgcctaactc taccgcatcc   300
cgatggtgaa ctgcctaact ctaccacatc ccgatggtga actgctaact cagccgcatc   360
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catgggctgc tcacagccgt ggcccttttg gcacaaccat tgttccttct tgtcttggaa   540
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ttgagttgga gttatttgta gagtctagag atcagtctct aggagacgtg tgatctgcag   660
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<210> 6675
<211> 6531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4481)...(538)
<223> similar to gi3413852 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

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cacatgctct taactaaggc ggagagatct ctgggaagcc gaagtcaggg cctgggcctc   180
tgacccctgc cctgggcctg gtctccctcc tctttcccac gatcccatgc tccagggctg   240
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aatgatctac agtggctcat cctagaagag gggggctgga ctgcaggtgt tgctgggaag   360
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5336

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ctcggcctcc acccgctgca gttccaggtc agccacctcg cctcgcaacg tctgcacctg  1200
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5337

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atttttttgag acagagtctt gctcttgtcg cccaggttgg agtgcagtgg tgcgatctga    4860
gctcactgca acttctgcct cttgggttca agcgattctc ctgcctcagc ctcccaagta    4920
gctaggacta catacgtccg ccaccatgcc cagctaattg ttgtatttt agtagagaca    4980
gggtttcacc gtgttggcca ggctggtctt gaactcctta cctaaggtga tccacctgcc    5040
ccagcttccc aaagtgctgg gattacagga gtgagccatg gcacctggcc tagggttgtt    5100
atatgtttga catccgtccc atttgggagg ccttctcatc agtcattta tgcctttaat    5160
gccattctag gtaggcagga aaggggtcag ggccagtggg cccatgtagc agataggaa    5220
actgaggccc agagaggaca agccacttct tcaagaggac ccaaactgga tgccaggcag    5280
gccctctgcc tctgggattt tgcccatatg gctcaactgg cctaagtctg ctggcccaag    5340
gaaaaatttc aacccaaccc tgcccttttcc cccattcctc tcgtgcaggg gagttggcgg    5400
gcctgcggca gcaaataata gctacgcagg agaaagccag tctagacaag gagctgatgg    5460
cccagaagct ggtgcaggct gagcgggagg cccaggcctc tctgcgggag cagtgggcag    5520
cccaggagga ggacttgcag tgactccagc gtgaaaaggt tcaggcagct ggggaggggt    5580
gggcagaagt ctgagccagt gtttcatcat cgttcttgct ctgcctcggt ctgtacatct    5640
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gtggtgggga ggttgtggtc cttattagac attcagatac ccaggtccca aatctggtcc    5760
agccctggta atcctgatgc agagggtcca caaccacatt tgggaaatgc tgacctaatg    5820
tacagcagga aagcactttc atttgctaag aagtttccat atgaagggcc acgcagacct    5880
gagcatgtag aaaggcaagg ggccagggaa gttactagaa cactgactct ggggttatat    5940
tgcctgggtt tgaatctaat cttggtcgct tactggtgat gctacccaag gtgtctgtgc    6000
cttcatttcc ccacctgtag aaatagggat aggatagtgg aaggtattga ggatgagctg    6060
agaccatctg catagagggc ttaacatagt gactggtact tagcaaatgc tccatgagtt    6120
atgattgctg gcactggcat gctctccaga gtggccctca ggacaggggc cctcagccac    6180
caaatcctag acaggacttc ctctgacaga ggtgcaggct atgactacat ggctccaggg    6240
catgccactc accctgcagt ccccgtggcc ttgggtggtg gttatcacgc ttctccatca    6300
gggggcggta aagctctttc cgaaagtgct gggattccag gcgtgagcta tggtgaagct    6360
cttaaagaag gggtggcttg gccaggcgtg ctgactcatg cctgtaatcc cagcactttg    6420
ggaggctgag gtgggcggat cacgaggtca ggagatcgag accatcctgg ctaacacagt    6480
gaaaccctat ctctcctaaa atcacaaaaa attagctggg catggtggca c            6531
```

<400> 6676

```
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag      60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc     120
cctgtgggtg gggtgggggc tggaacctat gaacattctg caggggccac tgacttctcc     180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg     240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg     300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt     360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac     420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg     480
aggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa     540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct     600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag     660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt     720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac     780
cgcnctgact aatgtcatca gtgnntcaat tnnccccct cccctcg                  827
```

<210> 6677
<211> 2346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2347)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (131)...(2121)
<223> similar to gi4079673 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6677

```
gcggccgcct gaggcgggcg gtcggtatag agcgggcggc aggaggcaag cagcgaaacc      60
ttcccggccg ccgctcccgt cccgacggcg gcttccccaa ggcggcagga ctcggcgcgc     120
catggacagg ccggcggcgg cggcggcggc gggctgcgag ggcggcgggg gcccgaaccc     180
ggggccggcg ggcggcagga ggcctcctcg ggccgcgggg ggcgccaccg ccggctcccg     240
gcagcccagc gtggagaccc tggacagtcc cacaggatca catgttgaat ggtgtaaaca     300
gcttatagct gctacaattt ctagtcagat ttcaggttca gtgacatcag aaaatgtgtc     360
cagagattac aaggctctaa gggatggaaa taagctggca cagatggaag aggctccact     420
tttcccagga gaatcaatta aagccattgt gaaagatgtc atgtatatct gcccatttat     480
gggagcagtg agtggaaccc tgacagtgac ggactttaag ctgtacttca aaaatgtcga     540
gagggacccg cattttatcc ttgatgttcc ccttggagtg atcagcagag tggagaagat     600
tggagcacag agccatggag acaattcctg tggtatagag atagtgtgca aggatatgag     660
gaacttgcgg cttgcttata aaacaggaag aacagagtaa actaggata tttgaaaacc     720
tcaacaaaca tgcatttcct ctttctaacg gacaggcact atttgcattc agctataaag     780
aaaaatttcc aattaatggc tggaaagttt atgatccagt atctgaatat aagagacagg     840
gcttgccaaa tgagagttgg aaaatatcca aataaacag taattatgag ttctgtgaca     900
```

```
cctaccctgc catcattgtt gtgccaacta gtgtaaaaga tgatgacctt tcaaaagtgg    960
cagttttttt agcaaaaggc agagtccctg tgttgtcatg gattcatccg gaaagtcaag   1020
caacgattac ccgttgcagc cagccacttg tgggtcccaa tgataagcgc tgcaaagagg   1080
atgaaaaata cttgcaaaca ataatggatg ctaacgcaca gtcacacaag cttatcatct   1140
ttgatgctcg acaaaacagt gtcgctgata ccaacaagac aaagggtgga ggatatgaaa   1200
gtgaaagtgc ttacccaaat gcagaacttg tgttcttgga gatccacaac attcatgtca   1260
tgcgagagtc actacgcaaa ttaaaagaga ttgtgtaccc ttcgatcgat gaggcgcggt   1320
ggctctccaa tgtggatggg acgcattggc tggaatatat aaggatgctg cttgctgggg   1380
cagtaagaat tgctgataaa atagaatctg ggaaaacatc tgtggtggtg cattgcagcg   1440
acggttggga ccgaacagcc cagctcacat ctctggctat gctaatgttg gacagttact   1500
acaggaccat taaaggattt gaaactctcg tagaaaagga gtggataagc tttggacaca   1560
ggtttgcact gcgagtgggc catggtaatg acaaccatgc ggatgctgac cgatctccca   1620
tatttctgca gtttgttgat tgtgtttggc aaatgacaag gcagtttcct tcagcattcg   1680
agtttaatga gctattcttg attacaattt tggatcacct ttatagctgt cttttttggga   1740
ccttttttgtg caactgtgaa cagcagcgat tcaaagagga tgtatataca aagacgatat   1800
ctttatggtc gtatatcaat agccagctag acgagttttc taatcccttc tttgtgaatt   1860
atgaaaacca cgtgttatat cctgttgcta gtctgagtca tttggaattg tgggtaaatt   1920
attatgtacg atggaatcca cggatgagac ctcagatgcc cattcaccag aatctcaagg   1980
agctgctggc cgtcagggcg gagctgcaga agcgtgtgga gggtctacag cgggaggtgg   2040
ccacgcgcgc cgtctcatcc tcatctgagc ggggctcctc gccctcccac tccgccacct   2100
ccgtccacac ctcggtctga tgggcgaggt cagcctgctg ctccactgtc tcccggtggc   2160
tcaagaaagg gacctggcga tcactgttat ggctgtagct tgtgatcttg tctttttagga   2220
ttaggcccag ggaccatttg tgtggctagg tgacagctcc cactgttggc aaccgttacc   2280
ctcctgtcag cggtttcaca ggggagccgt ctgtnacggc caccctgtga agcaacttct   2340
ggcatt                                                              2346
```

<210> 6678
<211> 1312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)...(1083)
<223> similar to gi2154755 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6678

```
cctcagaagt aagcaaggtt tcctgccggg agaaaaggat ttgaagcatt ccagccaaaa     60
tgacggacag aagccccttc gaaaccgaca tgctcaccct gacccgctac gttatggaaa    120
aggggcgtca ggccaaaggg actggggagc tcacccagct gctgaactca atgctgacgg    180
ccatcaaagc catctcctcg gctgtgcgca aggccggtct ggcccacctg tatggaatcg    240
caggaagcgt taacgtgacg ggagatgagg tgaagaaact ggatgtgcta tccaattccc    300
tggtgatcaa catgctccaa tcctcctata gtacctgcgt cctggtctca gaagagaata    360
aggacgccat catcaccgcc aaggagaagc gggggaaata cgtggtctgc ttttgaccca    420
ctggatggat cttccaatat tgacttgcct ggccttccat cggaaccatc ttttgccatc    480
tatagaaaag acctcagagg atgagccttc tgaaaaggat gccctgcagt gtggccgcaa    540
tattgtggcc gcaggttatg cgctgtacgg tagtgcaacc ctggtggctc tctccacagg    600
gcaaggcgtg gacctcttca tgcttgaccc ggctcttggt gaatttgtcc tggtggaaaa    660
agatgtcaag attaagaaga aggaaagat ttacagcctg aatgagggct atgccaagta    720
```
```
                                                  5340
```

```
ttttgatgcg gccaccactg aatatgtgca gaaaaagaaa ttccctgagg atggcagtgc   780
tccctatggg gccaggtatg tgggctccat ggtggctgac gtgcaccgca ccctggtcta   840
tggaggaatc ttcctgtacc cagccaacca gaagagccct aagggcaagc tccggctcct   900
gtatgaatgc aatcccgtgg cctacatcat tgagcaggca ggaggcttgg cgaccacggg   960
gacccagcct gtactggacg tgaagcccga ggcaattcac cagcgagtcc ccctcattct  1020
ggggtcacca gaggatgtgc aggaatatct cacctgtgtg cagaaaaatc aggcaggcag  1080
ctagcgagtt tgaccccaca tgccctcttc tgtttgtctt gcaccttgtc taaggaccct  1140
aaatgaacga taaacagaga tggtagctat gagtatacaa aaggtaaatc cacttaatca  1200
catacagaag agcaacaaca aactgcttac gacaggtttg gaagccacag gcgattctat  1260
ggtcaatgtg aaggactaga aataaaaacc cacatgtgga aaaaaaaaa aa           1312
```

<210> 6679
<211> 1972
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1973)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (367)...(1612)
<223> similar to gi3005717 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6679
```
cggggacccc gagctagagc cgcagcggga cctgcccggc ccccggcgcc cggcggccgc   60
cgccgcgatg tttccccgcg agaagacgtg tgaatcatct cgttcgcggg ccttgcggct  120
tgggtgggcg tctacttacg tcggcgtggc cctcctgcct ccgcgagcac gcgccccttc  180
ctggtggcca acgccacgca catctacggc gcctcggccg ggggcnttca cggccacgga  240
cgctggtcac cggggtctag cctgggtgag gctggtgcca aagttcattg aggtatctta  300
aagaggcccg gaaagcggtt cctggtgtcc cctgcacccc tccttcaacc tggtaaaaga  360
tcatgccgca gtttcctgct gaaggtcctg cctgctgata gccatgagca tgccagtggg  420
cgcctgggca tctccctgac ccgcgtgtca gacggcgaga atgtcattat atcccacttc  480
aactccaagg acgagctcat ccaggccaat gtctgcagcg gtttcatccc cgtgtactgt  540
gggctcatcc ctccctccct ccaggggggtg cgctacgtgg atggtggcat ttcagacaac  600
ctgccactct atgagcttaa gaacaccatc acagtgtccc ccttctcggg cgagagtgac  660
atctgtccgc aggacagctc caccaacatc cacgagctgc gggtcaccaa caccagcatc  720
cagttcaacc tgcgcaacct ctaccgcctc tccaaggccc tcttcccgcc ggagcccctg  780
gtgctgcgag agatgtgcaa gcagggatac cgggatggcc tgcgctttct gcagcggaac  840
ggcctcctga accggcccaa ccccttgctg gcgttgcccc ccgcccgccc ccacggccca  900
gaggacaagg accaggcagt ggagagcgcc caagcggagg attactcgca gctgcccgga  960
gaagatcaca tcctggagca cctgcccgcc cggctcaatg aggccctgct ggaggcctgc  1020
gtggagccca cggatcctgc tgaccaccct ctccaacatg ctgcctgtgc gtctggccac  1080
ggccatggat ggtgccctac acgctgccgc tggagagcgc tctgtccttc accatccgct · 1140
tgctgggagt gggctgcccg acgttcccga gggacatccg gtgggatgaa aggagcagac  1200
ggggcagcat ctgccaggta cctgggtgat gcgcgccaag aggaagctgg gcagggcacc  1260
tgccctccag gctgccggag caggtggagc tgcgccgcgt ccagtcgctg ccgtccgtgc  1320
```

5341

```
cgctgtcctg cgccgcctac agagaggcac tgcccggctg gatgcgcaac aacctctcgc    1380
tgggggacgc gctggccaag tgggaggagt gccagcgcca gctgctgctc ggcctcttct    1440
gcaccaacgt ggccttcccg cccgaagctc tgcgcatgcg cgcacccgcc gacccggctc    1500
ccgcccccgc ggacccagca tccccgcagc accagctggc cgggcctgcc cccttgctga    1560
gcacccctgc tcccgaggcc cggcccgtga tcggggccct ggggctgtga gaccccgacc    1620
ctctcgagga accctgcctg agacgcctcc attaccactg cgcagtgaga tgaggggact    1680
cacagttgcc aagaggggtc tttgccgtgg gcccctcgc cagccactca ccagctgcac      1740
tgagagggga ggtttccaca cccctcccct gggccgctga ggccccgcgc acctgtgcct    1800
taatcttccc tcccctgtgc tgcccgagca cctcccccgc cccttactc ctgggaactt      1860
tgcagctgcc cttccctccc cgtttttcat ggcctgctga aatatgtgtg tgaagaatta    1920
tttattttcg ccaaagcaca tgtaataaat gctgcagccc agaaaaaaaa aa             1972
```

```
    <400> 6680
cggcaccggg ctcctcctgc tgctgggaca gtgctctagt acaacagaca gacctactga     60
cacaggggag gtgagaaggg aggtgaccac caggactggc tctgtgagta ctacacagtg    120
gggagggggt ggggccacc atgtcatcat atcagaagga actggagaaa tacagagaca     180
tagatgaaga tgagatccta aggaccttga gccccgagga gctagagcag ctggactgcg    240
aactacagga gatggatcct gagaacatgc tcctgccagc tggactaaga caacgtgacc    300
agacaaagaa gagcccaacg gggccactgg accgagaggc ccttttgcag tacttggagc    360
aacaggcact agaagtcaaa gagcgtgatg acttggtgcc cttcacaggc gagaagaagg    420
ggaaaccta tattcagccc aagagggaaa tcccagcaga ggagcagatc accctggagc    480
ctgagctgga ggaggcactg gcacatgcca cagatgctga aatgtgtgac attgcagcaa    540
ttctggacat gtacacactg atgagtaaca agcaatacta tgatgccctc tgcagtggag    600
aaatctgcaa cactgaaggc attagcagtg tggtacagcc tgacaagtat aagccagtgc    660
cggatgaacc cccaaatccc acaaacattt gaggagatac taaagagggt ccgaagcaat    720
gacaaggagc tggaggaggt gaacttgaat aatatacagg acatcccaat acccatgcta    780
agtgagctgt gtgaggcaat gaaggcaaat acctatgtgc ggagcttcag tctggtagcc    840
acgaggagtg gtgacccccat tgccaatgca gtggctgaca tgttgcgtga gaatcgtagc    900
ctccagagcc taaacatcga atccaacttc attagcagca caggactcat ggctgtgctg    960
aaggcagttc gggaaaatgc cacactcact gagctccgtg tagacaatca gcgccagtgg    1020
cctggtgatg cagtggagat ggagatggcc accgtgctag agcagtgtcc ctctattgtc    1080
cgctttggct accactttac acagcagggg ccacgagctc gggcagccca ggccatgacc    1140
cgaaacaatg aactacgtcg ccagcaaaag aagagataac actgcatttc cctttaccaa    1200
ctagcgctgg gagcactgga cacttaaatc ctcatctgtc ctcctttcct gtaaataaaa    1260
gcccttctat ccaaaaaaaa aa                                              1282
```

<210> 6681
<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1021)...(737)
<223> similar to gi487836 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6681
```
ggtgtgtgtg cactgtctgg tcaagagcag tgtccatttg cttttctgtg gcaacagtgc        60
acgtggggtg ggtggggggt gcgtacggtg gggcttgtag gttaagatgt ctctgcggtg       120
gtgttgtggg gctggaggcc gagccaggca cggcagctgg ccctctccag gcgcatggag       180
gaattctccc tttgccgttc caaggatgcc gccgcctcct accggggctc ccggggggggt      240
cagccaacac tacaaagggc agcgagtcct cagggcgccc gggagccacc agtctgctct       300
cgggctctac tcagactagc gccaacagtc tccgcggaca gactcgcatc agccgccctg       360
gggctcggcc tcctcccata ggctcctctt cctctctttc attcaagtct tcaaactttg       420
aaaaaaatat gagcttttgc caaataagac gggatagttt atggagtttt ctgaggcgca       480
ttgaactctg gtcagccccct cgagcgtggg ctcggccatc agcaggcccg gtgggttggc       540
cgggctggcc ctcccaggct gcctttctct ctggtcgcgg cctggcccgc cccggcctcc       600
accgccgcaa ttcatgctgg tgccgcgccc gcagccccac tcctggtatg cctgagattc       660
tccaggggcc aagccggtcc tccttcccgg cccactcttc cagggccagg acgctcccgc       720
ggagccagcc catcgtggct gggggtccca ggggctggag gcctgcctgg ttagcctctg .     780
tttcccagac attgactcga ggcgcctcca gtcctctcaa cccccctgact ttcaagtcct       840
ttcaagtcct tgtgccctga ccaagttatg aggaaaagag ggctgagggc ctggaggtgg       900
gctcgcaccc cctcgaaccc acctagatgt ctcctcctcc ccagcctatg agttcagact       960
tggggggctc catctgtccc tccctgaggt ccctcatctt gtccctgctc tgattctgtc      1020
agcagatcct gaacactcct tggtggggac ccatgcctcc aaggctgccc ccaatgccag      1080
ctgtcctggg gaaactcccc agaactctcg gggaaaggcc cgagaacctt cggaggaagc      1140
ctccgggact cctcgccacc tgctctgttt ctctcccggc cccactgcct tcaggtatca      1200
ggaagagggc aggcccctgt gcccccctctc cccttcccag ggcggccaac aatactccac      1260
catgggcgc ttcctttctt ctctggaaac taagacattg gactgaagga actggcctga      1320
gggggctga ccggggcccc gtgctgctgg gagctctacg cacaagaggc cgccggggtc      1380
acggacagga acctcagccc agggtgctgg cctttctcct tcgcaggagt cccccaaaat      1440
ccacacagcg actcgagcag ccttccactc agccagagga gggtcgggct cccccgcctg      1500
ctctcggtgg tggcgtctgg cccttcctgc cgtttccaag gcctccggaa gcaccaaccc      1560
agttctcagt tacctcctct ggccggaagg cctcacgttg tcctccagag ctgctctggg      1620
cccagggctg gctccgtgac cacctgatgg acgtgctggg cagcatgggc tcccaaggca      1680
gcatccccag ctgctctccc accccacccc agctgcccgg cggctgggcc cacgagggct      1740
ctggggacac ttccatagga aaggggcctg gcactttgtg attgccacgt gtttcctgtt      1800
aagccgcctg cccccagtgc aaatctctgt gttttgctct ctcctgaaca aaaatgtaaa      1860
ccgacgccgg aaagcaaatg gtatcgaata cctttcttgc ccataagggt ttttacaaag      1920
aacgtgtctc actaggaact aggacactca tcggcccgag accacctgat ggacgtgctg      1980
ggcagcatgg gctcccaagg cagcatcccc agctgctctc ccacccaccc ccagctgccc      2040
ggcggctggg cccacgaggg ctctggggac acttccatag gaaaggggcc tggcactttg      2100
tgattgccac gtgtttcctg ttaagccgcc tgcccccagt gcaaatctct gtgttttgct      2160
ctctcctgaa caaaaatgta aaccgacgcc ggaaagcaaa tggtatcgaa tacctttctt      2220
gcccataagg gtttttacaa agaacgtgtc tcactaggaa ctaggacact catcggcccg      2280
agaccaactc ctggataaaa ggaataagga gaatcgtgtt tgtaacgagt tacaggattg      2340
tttctttcct ggattttaaa cttttgttaa attgtgaaat tatggaggag ttttatagaa      2400
aaaaaaagtg aaataaagtc agatgggaaa gcagaaaaaa aaaa                       2444
```

<210> 6682
<211> 1541
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1542)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1236)...(354)
<223> similar to gi4589283 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6682
```
gttttttttt aagattccac ttctcagttt atttctgggg actaaatttg ggtcagagct      60
tgcagagaag ggattgggcc ctgagcttga ggatgaaagt gccccaggga gattgagacg     120
caaccccgc cctggacagt tttggaaatt gttcccaggg ttcaactaga gagacacggt     180
cagcccaatg tgggggaagc agaccctgag tccaggagac atggggtcag gggctggaga     240
gatgaacatt ctcaacatct ctgggaagga atgagggtcc tgaaaggagt gtcagggctg     300
tccctgcaag caggtgggga tgccggtgtg ctgagtcctg gggatgactc aggaattggc     360
ctggatggtt tcctggatcc actttggtga acttgcagaa gttcgtgtag acaccccggt     420
cttgtttggg cccgggcaca agggtaatct ccccaggaca cgagtccctg cagggagcca     480
ttgcagacca caggcccccc agaatcaccc tggcaagagt ctctacctgc tttgtcaccg     540
gcgcagaaca tggtgtcatc tatctgtctc gggtaagcat cctcgcacct tttctgactt     600
agcacgctga tattcaagca ctggaggacc ttagggaagt gcacttgggg gctcttggtt     660
gtcccccagc cagacaccaa gcactttgtc ccagcagagg gacaatgaga ggagacgttg     720
atgggtctga catctttagt gggacgaatt cttctgttca gtttgatgag catgaggtcg     780
ttagagtggc caggtgggga gtagccaggg tggggatgg atttgacccc ctggaacatc     840
tgctgcccag attcataaac tggtgacagg gagtagtggc cgagacggac tctgaaaact     900
ttcttcctgc agtgggcggc cgtgagcagc cactgtggat gcaccaacac cgccccgcag     960
tagagctggt tgggccttag caacagcgcg gcctgccacg gctgggtgtg catatcgcag    1020
tcggatccat tgatgatgcg gctgctgctg tcatccgacc gggcgtcttc cccggcccca    1080
gctcccaggt cctggttgct cccagagggc acggtgttag aggggtggtc acaggaaaca    1140
tcattgttgg cgagaacatg ctctgtgacc cccagaagca aggctgtgat cagagcacag    1200
agcacccaca tccagggggg tcttgctgta gccatggccg ctgcacctgg atggggaatg    1260
tcagagggtt gggaggccca ggcgatccgg ggagccctta acccacttcc cctccctccc    1320
ctaccttatt tccccaggta gagaggaacc acaaggacgg gccaccatcg gcactgcgct    1380
gagacccagg cactatagaa ttcagaagat aggagtctag cagcctccag acagggcaag    1440
gaggggagna gaaagatgtg ggtgcaggac gcacagacac ctctccttcc ctgcctgntg    1500
aggaattcct ccgctctggg ctagtggtca tcgatttcca t                       1541
```


<210> 6683

<211> 1437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1061)...(292)
<223> similar to gi3581866 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6683
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gccccataaa aaaaattttt ccttgccagc ccgggtcgta aaatttgttc cttttaaacg    60
gccccccctt tttttttttt ttctggctgc aaatcgtttt tatgggaacc tgcagggtga   120
cccggcacct tgctaactgg gcttagagtc taagggcttg ggggctgcat ctgatacagg   180
ttggagtttg gggtgggaga gtcctaggaa ggggggcccca agtagaaatg agagaaatca   240
ggaagggata tcggggggcgt ccacggggggt gctccgactg gccttgcacc cgtaccccag   300
ctctgcaccc cccgtcacga gcagttcaat gcccgtgcag aagttggctt cggaggccag   360
gaacactgcc gcagccccga cctcagcggg ctggcccatg cggcccagtg gctggatctg   420
aaccccactt ctacctgggc cagcatgccc tctcggattg tggccctagg gtctggcatt   480
aaggctgcca gctcctccca cagcggggtc cagatgtttc ctggggagat acagttgact   540
cggacaccat atggactttc atccagggcc aaagctttgg tcatggctgt tactgccccc   600
ttggtggcca catagggaac tgcctgggcc tggccgattg cccccaccag gctggagatg   660
ttgatgacat tcccttgact cttccgcagg taggggaggg cgagcttggt caaggtgtac   720
gtccccagta ggttcagctc cagcagctgg cggaatccct gggcagaggt ctcctcaggc   780
ctctgtgggg gtgggtggtg gccagcgttg ttgacaacac aatccaggcg gccaaatcgg   840
cggatggtct cagaaaccag ggtcttcaca tcatcttcct gagtcacatc acagaggata   900
aagacagctc cagggagctc ctgctccagg gcccggcccc cagactcatc cttgtcgcag   960
ataaccactc gggccccgct gttcacgaag gcgcgcacga tcccagctcc gatgccgcgc  1020
ccgccccccgg tcacgaccac caccttcccg gcatagcgcg ttcccgtagc catcccgtgt  1080
acgtcggtct ctctctctct ctactctggg cctctttcac ctccaaagcc ccgtgaggcc  1140
gtcgcatcaa atcctcaata gaggctggat cctggaagtc cggcctcggg gggcgttgcc  1200
aggaaggcta gagacctgga agtttgtccc cagcccctcc tccctcagac actcctctct  1260
tcccacagac ccaggaatcc aggagcccca gtccctcctc ccacagaccc aggaatccag  1320
aagcctcagt ccctcctccc tcagactcgg gagtccaggc ccccagcccc tcctccttca  1380
gattcgggag tccagcaacc cagcccatac atccctcaga cccgggagtc cagcctc      1437
```


<210> 6684
<211> 1013
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (987)...(854)
<223> similar to gi4336401 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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        <400> 6684
gctcgacttt ttttttttttt ttttttttttt ttttgcagga acactatatt tattaggtca      60
ataattcatt tttagcaata caagtacaga atatatcaca atgctggtta caaacatact     120
tagtatggtt taatagttac aaataacggt gggcactaca agttggtgag aatgatgaaa     180
ggtcatcctg acacaatgaa gaaccgtctt caaaaatcta tttaatgacc ttagatattt     240
ctatagaaat tattgtggca ctattagtgg ggattttcac gtaaagattg ttagtgtttt     300
gttttaact gttccattaa gaactttta ttttgagcct attaaactaa aatcccctgt     360
tgcttaataa agtataaaaa tagtactgac ctggtaatat ttaataaaac gtagcattca     420
ttcacatcat aaaagtagaa ctgaaaagtt ttagttacca tggcaaaata tcttcccata     480
aaaggaatat acagaaatga gtaatgttac acaaacggta cctgcaatgg ttatttagtg     540
atccaacact taactgtgca ccacaaacca agttttctag atatctatat ataggatata     600
tttttaatct taaattttac tcttgaaaaa catgtgcact tcaacaaact cactaaggcc     660
actcatgcta tagataccta ggattgcaat taaagaatag tattatgcaa taaatcctaa     720
agcacactcc ttctgattat caacagggta aaaccagttt tctgcctaaa acattcctga     780
gatttatgga caaaagaagt actgttgaag ctggagatta atccaaatgt catattaaca     840
acaaaaaatt tcctagccag gcgtggtggc aggagcctgt aatcccagct actcggaagg     900
ctgaggcagg agaatcgctg gaacccggga ggcggaggtt gcaattaacc aaaacggtgc     960
ccttgccctc ccagcctggg caacaaaaaa gaaactccgt tttaaaaaaa aaa            1013




        <210> 6685
        <211> 1478
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (576)...(200)
        <223> similar to gi1493827 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6685
tttttttttt ttacgatttt caccaacttt attggctccc gccgggaccc tcgccgccca      60
cctccccgct agatgtcacc ggccctccat gacatccagc acattcaaaa gcattgcggc     120
gacgaccatg aaaaagggcc tttgctgggc ggagccagct ccctgagggc gggcgtcagg     180
ggtcatttgc tccttcgtcc ttctgactct ccgtcttctt gggcagcagc acggcctgga     240
tgttgggcag gacgcccgcc ctgagcgatg gtcactttgc ccagcagctt gtttaactcc     300
tcgtcgttgc ggatggcgag ctgcaggtgg cggggaatta tcctggtctt cttgttgtca     360
cgcgcggcgt tgccagccag ctccaggatc tccgccgtaa ggtactccaa caccgccgcc     420
aggtacaccg gcgccccggc gcccactcgc tccgcgtagt tccctttgcg cagcagtctg     480
tgcactcggc ccaccgggaa ctgcaggccc gcgcgggagg agcgggattt ggcctttgct     540
cgcactttgc cgccctgttt cccgcgaccg gacatgatca cctctcgcct acaactccag     600
agacggagac aaaccgctct cggcgtccgg taccggaatg caacgtaccg cacccgaact     660
gcctctacaa actctttacg gccgcgcggc agcccctttc cattggctct ggcgaccaat     720
gacaggcaag ctccgctccc aactagcgct ctggaagaga gaccgcctcc tccagctctc     780
tccaatcaat agagcaatct ccgaatcctc atttacatag ccgctcacat aaataacgag     840
gccagccggc tcagtctttg gggacccaga tgaatttagc gggtacgggt ttttcacgac     900
cacgctcgct tccaagcaca taaactcgta ggaaataaga aaacatggtt tgaaacagaa     960
aacaatccag aagaagagct acaggggttg tccgtagacg ttgctatgct aagtggatgt    1020
tctcatataa tacaccgtac tactcaggta ggtttctgtc tccgcagccc gtgctgctta    1080
tgcgaaacaa cagcctgtcc gcggaattct gcctgcccag gacagggtcc gtggactgtt    1140
```

```
tcttatacaa gcgccttgcc tccagctagc tacccaacag tgtagagacc accctggtct   1200
ccccgcaggg tcctgcggct cacagccagc caatcgttca cttttgagtc tgaagctaga   1260
gtgatgacca gacgtgaatg cttcctgtgc tgacgggagg aacaagctcg cctagccaaa   1320
atatcttttg tctttgaggc tatgggcctg caaagagcca ctaggtttta ttggagaggc   1380
caaagtcttg gccttggctt gctccccgca agccagggcg ccacagatca gcggatcggg   1440
tcctctggga agacgtggag gtcccccggg tctctttg                           1478
```

<210> 6686
<211> 3380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(3065)
<223> similar to gi3811347 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6686
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ctgataccccc agcttggcac ggggacgcag ccatggcgga ggcggctttg gaagccgtgc    60
ggagcgagtt acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc   120
cctacctgga caaacccccca actccgctcc acttctaccg ggactgggtc tgccccaaca   180
ggccgtgcat tatccgcaac gctctgcagc actggccggc cctccagaag tggtccctcc   240
cctatttcag agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt   300
acgcggatgc cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga   360
gcttcgtgct ggatgtgctg gagggccggg cccagcaccc tggagtcctc tatgtgcaga   420
agcagtgctc caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg   480
tgccctgggc ctccgaagcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg   540
aggcggctgc agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct   600
caggagagaa gcatttcctg ttccatccgc ccagcgaccg gcccttcatc ccctatgagc   660
tgtacacgcc ggcaacctac cagctaactg aagagggcac ctttaaggtg gtggatgaag   720
aggccatgga gaaggcagag gtgtccagga cctgcctgct cacggttcgt gtcctgcagg   780
cccatcgcct accctctaag gacctagtga cccccctctga ctgctacgtg actctctggc   840
tgcccacggc ctgcagccac aggctccaga cacgcacggt caagaacagc agtagccctg   900
tctggaacca gagctttcac ttcaggatcc acaggcagct caagaatgtc atggaactga   960
aagtctttga ccaggacctg gtgaccggag atgaccctgt gttgtcagta ctgtttgatg  1020
cggggactct gcgggctggg gagttccggc gcgagagctt ctcactgagc cctcagggtg  1080
aggggcgcct ggtaagttga atttcgcctg cagagtctgg ctgaccgtgg cgagtggctc  1140
gtcagcaatg gcgttctggt ggcccgggag ctctcctgct tgcacgttca actggaggag  1200
acaggagacc agaagtcctc agagcacaga gttcagcttg tggttcctgg tcctgtgag   1260
ggtccgcagg aggcctctgt gggcactggc accttccgct tccactgccc agcctgctgg  1320
gagcaggagc tgagtattcg cctgcaggat gccccgagg agcaactaaa ggcgccactg   1380
agtgccctgc cctctggtca agtggtgagg cttgtcttcc ccacgtccca ggagccctg   1440
atgagagtgg agctgaaaaa agaagcagga ctgagggagc tggccgtgcg actgggcttc  1500
gggccctgtg cagaggagca ggccttcctg agcaggagga agcaggtggt ggccgcggcc  1560
ttgaggcagg ccctgcagct ggatggagac ctgcaggagg atgagatccc agtggtagct  1620
attatggcca ctggtggtgg gatccgggca atgacttccc tgtatgggca gctggctggc  1680
ctgaaggagc tgggcctctt ggattgcgtc tcctacatca ccggggcctc gggctccacc  1740
tgggccttgg ccaacctttta tgaggaccca gagtggtctc agaaggacct ggcagggccc  1800
actgagttgc tgaagaccca ggtgaccaag aacaagctgg gtgtgctggc ccccagccag  1860
```

5347

```
ctgcagcggt accggcagga gctggccgag cgtgcccgct tgggctaccc aagctgcttc   1920
accaacctgt gggccctcat caacgaggcg ctgctgcatg atgagcccca tgatcacaag   1980
ctctcagatc aacggggagg ccctgagtca tggccagaac cctctgccca tctactgtgc   2040
cctcaacacc aaagggcaga gcttgaccac ttttgaattt ggggagtggt gcgagttctc   2100
tccctacgag gtcggcttcc ccaagtacgg ggccttcaat cccctctgag ctctttggct   2160
ccgagttctt tatggggcag ctgatgaaga ggcttcctga gtcccgcatc tgcttcttta   2220
gaaggtatct ggagcaacct gtatgcagcc aacctccagg gacagcttat actgggcctc   2280
agagcccagc caattctggg gaccgctggg gtcaaggaac caggccaacc tgggacaagg   2340
agcaggtccc ccttctgaag atagaagaac caccctcaac agccggcagg atagctgagt   2400
ttttcaccga tcttctgacg tggcgtccac tggcccaggc cacacataat ttcctgcgtg   2460
gcctccattt ccacaaagac tactttcagc atcctcactt ctccacatgg aaagctacca   2520
ctctggatgg gctccccaac cagctgacac cctcggagcc ccacctgtgc ctgctggatg   2580
ttggctacct catcaatacc agctgcctgc ccctcctgca gcccactcgg gacgtggacc   2640
tcatcctgtc attggactac aacctccacg gagccttcca gcagttgcag ctcctgggcc   2700
ggttctgcca ggagcagggg atcccgttcc cacccatctc gcccagcccc gaagagcagc   2760
tccagcctcg ggagtgccac accttctccg accccacctg ccccggagcc cctgcggtgc   2820
tgcactttcc tctggtcagc gactccttcc gggagtactc ggccctgggg tccggcgga   2880
cacccgagga ggcggcagct ggggaggtga acctgtcttc atcggactct ccctaccact   2940
acacgaaggt gacctacagc caggaggacg tggacaagct gctgcacctg acacattaca   3000
atgtctgcaa caaccaggag cagctgctgg aggctctgcg ccccaggcag tgcaaacgga   3060
aggcggcagc gcaaggcccc cactgatggc cggggcccct gcccacccc taactctcat   3120
tcattcccct ggctgctgag ttgcaggtgg gaactgtcat tcacgcagtg cttcagagcc   3180
tcgggctcag gtggcactgt cccagggtcc aggctgaggg ctgggagctc ccttgcgcct   3240
cagcagtttg cagtggggta aggaggccaa gcccatttgt gtaatcaccc aaaacccccc   3300
ggcctgtgcc tgttttccct tctgcgctac cttgagtagt tggagcactt gatacatcac   3360
agactcatac aaaaaaaaaa                                               3380
```

```
        <400> 6687
tttttttttt ttctcaacca aatgttttga atttattata atcagtgctt ctctacaact    60
aatgattctt gtcggtttgc aaaccactgt ctgcctttat ttacctacac aaacacggaa   120
cagaatttcc aataggagag gttcacacag ctaacaaagc atagagtgtg tgacctcaat   180
aaggcattca acaaagacac acgccgtatt tccctctgac tgcgttccct taggatgctc   240
tgatgttggc gtcgcattct tctaaaagta gaatcaaatc ttcaatcagg ctgtgttctc   300
tgccatgtgt cactctcata atatcaaaag ccagtctcag attcttcatt gcttggggaa   360
acatgccttg atgtagctgc agtttgccaa ctttcatcac ttgaacccct ctgacgggat   420
ggcttcctgg gaaaaaaatc ctgtatggct ccatggtccg agtaccatag aacaaggctt   480
cctccaacag gccgaggttg atgcaggcat ccatggcgca gtcgagcacc ttcagctggt   540
agatgttgat atcgggaagc cgttcagaat tgctgcttat gatcgcctgg cacatggcca   600
gaacctgctc ccacttccag tgtgccttca gttcttcaat ttttttcagg gattcttgaa   660
```

```
cttccttcca tacttgctca tcaccagtta gcatatcagc atccttgtcc tgggtttggc      720
aacggaaacc agtcacattc aaagcagtac tggtccctca gctgcttccg gcgctcctca      780
ctggtcatca gcatatccag gtagcagatg gtgagctcct ctcccacctc gatgtctcgg      840
actgctcgca gtaagaggtg gggcccattg aacacaatcg aacagttggg gtcacagctg      900
tgattgagca aagagatact gggatatagg ccaacaccaa cttcctgcat ctccgcatta      960
cagatggtga aagagttgca gatcactttt gcaaaggctt caaaaaggtc aaaggcaggt     1020
ggcagctgag aggcatcctg tatttcttct ctcatgaaat gttgaaatgt cattacgagt     1080
tgcctgaggc cctctttctt atcttcagtc agtttgttaa tatttgactc cagatcataa     1140
aatgagtaaa gcttctctga ttctgaaggt gctccatcca taagtttgaa gacaactctg     1200
ccaagaagtc gaacggagtc tggaggatat ctgggtttgc agcttttaag gcatttgcat     1260
tcccgcttgt ggtctggcca agctttttc tgacacttag cactacagta tttggcgacg     1320
cggcactgag agcatcgcat cagctttcc ttcccgagaa ggcagcggtc gcagacgacg     1380
ccacgactcc ccttgcacac cgtgtacgcc aagggatccg agcggaagag tagctctccg     1440
gggcgcagcg gggtcacggc gcgcagcccg tttcccctgt tggcggttgc gaactttcc      1500
accttcagcg gctccatcct cccgcagctc cggcacctca gacggctacc cgcgcccagc     1560
agcgggcgtc tcacgggctg ccgggacccg cgcgcctgcg ccctgacgaa a              1611
```

```
        <210> 6688
        <211> 3401
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (751)...(2472)
        <223> similar to gi1050530 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters




        <400> 6688
        ttttttttt ttaaatggaa tctcactctg tcacccaggc gggagtggtg caatggcttg       60
        atcttccgct cactgcaacc tctgcttccc gggttcaaac tattctcccg cctcaacctc      120
        ccaagtagtt gggattgcag gcacgcgcca ccacgcccgg ctaatgtttg tatttttagt      180
        agagacgggg ttttgccatg tttcccaggc tggtcttaag ctcaagcgat ccgcccgcct      240
        cggcctccca aagtgctggg attacaggcg tgagccgatc ggctcctggc ctcctgcttc      300
        tttcttcccc gcgcccaatc atttgttccc actcagacgt gcttgattgg cggtagcagc      360
        tcttttcgtc atgaattgga gtgtctgaga cacaggcaga ttattcctcg atgctgtttc      420
        tgttggtgct agctactggg gctcgttccc cacctggcct tgctggcagg ttctgcctcc      480
        tctctgattc tcacttgtgc cacgacaggt gggctttaag ctcagccgtg agcctggtag      540
        ccgtgacctt gactcatttc tccttcgcca gctctttcct ctcaggatcc tgctctttcc      600
        ctgaaagaga atctcgagga tatatcgggt tggggtcttc ccgaagccag gtccaaggaa      660
        tcggtgagtt tcaaggatgt ggctgtggac ttcacccagg aggagtgggg tcaactagac      720
        tcccctcaga gggccttgta ccgggatgtg atgttggaga actaccagaa ccttcttgcc      780
        ctaggacctc cactgcacaa gccagatgtg atctctcatc tggaacgagg cgaggagcca      840
        tggagcatgc agagggaagt ccccagaggg ccctgtccag aatgggagct gaaggcggtg      900
        ccctctcaac agcagggcat ttgcaaagaa gaaccggccc aggagcccat catggagcgg      960
        cccctcggcg gggcgcaggc gtggggcgc caggcaggtg ctctgcagag gagtcaggct     1020
        gcgccctggg cgcccgcacc tgccatggtc tgggacgtcc ctgtagagga attccccctc     1080
        aggtgtcccc tcttcgccca gcaacgcgtt cccgaggggg gaccttgct ggacacacgc      1140
        aagaacgtcc aggccactga gggcagaacc aaggcccccg cgagactgtg tgcaggggaa     1200
        aacgcctcca cgccaagtga gccagaaaag ttcccccagg tgcgccggca gcgcggggcg     1260
```
```
                                      5349
```

```
ggcgccgggg agggcgagtt cgtgtgcggc gagtgcggga aggcgttccg ccagagctcc    1320
tccctcacgc tgcaccggcg ctggcacagc cgggagaagg cttacaagtg cgatgaatgc    1380
ggcaaggcct tcacctggag caccaacctt ctggagcacc ggcgcatcca caccggcgag    1440
aagcccttct tctgcggcga gtgcgggaag gccttcagct gccactcgtc cctcaacgtg    1500
caccagcgca tccacacggg cgagcggccc tacaagtgca gcgcctgcga gaaggccttc    1560
agctgcagct cgctgctcag catgcacctg cgggtgcaca ccggcgagaa gccctaccgg    1620
tgcggcgagt gcggcaaggc cttcaaccag cgtacacacc tcacacgcca ccaccgcatc    1680
cacacgggcg agaagcccta ccagtgcggc tcctgcggca aggccttcac ctgccactca    1740
tccctcaccg tgcatgagaa gatccacagc ggggacaagc cgttcaagtg cagcgactgc    1800
gagaaggcct tcaacagccg ctcgcgcctc accctccacc agaggacgca cacgggcgag    1860
aagcccttca gtgcgccga ctgcgggaag ggcttcagct gccacgcgta cctgctcgtg    1920
caccggcgca tccacagcgg cgagaagccc ttcaagtgca acgagtgcgg caaagccttc    1980
agctcccacg cctacctcat cgtgcaccgg cgcatccaca caggcgagaa gcccttcgac    2040
tgcagccagt gttggaaggc cttcagctgc cactcgtccc tcatcgtgca ccagcgcatc    2100
cacaccggtg agaagcccta caagtgcagc gagtgcggca gagccttcag ccagaaccac    2160
tgtctcatta aacatcagaa aatccactcc ggggagaagt cgtttaagtg tgagaaatgt    2220
ggggagatgt tcaactggag ctcgcacctc actgagcacc agaggctgca cagcgagggg    2280
aagcccttgg ccatccagtt caacaaacac ctgctcagca catactacgt gcctggcagc    2340
ctgctgggtg caggggatgc tggactgagg gacgtggatc ccatcgacgc gctggatgtg    2400
gcaaagctct tgtgcgtggt tcccccccaga gctggcagga atttctccct ggggagcaaa    2460
cctcgaaact aacatgatgt gctttggtgt cagtagctgc tttctgagct actcaacaag    2520
gaaagcaccc tggtcctccc tggctcctag atccagacca ccttcctcca ggtgtgggag    2580
ccttgcctta tcacccaat caggtctgca tgccagggtg cctcctctag ttaaagtcag    2640
tcacctcccc agaagggcca cactccagga ggagtgttga gagtcatttg aggtagtctt    2700
gccacctgtt ttccttgatg ggcctggaag ttgttgacaa ggggaaagat ctttcttgcc    2760
aataaaaaga agggatatcg ttgggtgcca tggctcacac ctgtaatctt aacactgtgg    2820
gaggccaagg caaggggatc acttgagccc aggagtctag gaccagcctg gacaacatgg    2880
tgagacctcg tctctacaaa aaatgcaaaa attagccaga tgtggcggca tgtccctgtg    2940
gtcccagcta ctcaggaggc tgaggtggga ggatcatttg agcctaggag gtcaaggctg    3000
cagtgagcca tgattcacag cactgcactg cagcctgggt gacaaagcaa gaccctgtgt    3060
gaaattaaaa ggaggtatat caactgttgt atcctcggac gggctcctga catggcttta    3120
atcaggagtt tcctccataa actattattt tcagaataat aataaaacaa gaattatgac    3180
tagcatcact ttccagtgaa cattattata ttgctagaga ggagaataat cttgggtggt    3240
gggcatttgg aaaaagtgaa tttcctgaac ttaactcatg taaatagctc tactgcagag    3300
ctgtgtgttt agtgacagtg cagtcagggg cattcccaca gctgtcacag cacggcccag    3360
catcattgta gccagatcct aacatgccaa catcacctct t                        3401
```

<210> 6689
<211> 2622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (83)...(2325)
<223> similar to gi53466 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6689
```
acgatttcgt aaaatggcgg acggaggagc agcgagtcaa gatgagagtt cagccgcggc       60
```

```
ggcagcagca gcagactcaa gaatgaacaa tccgtcagaa accagtaaac catctatgga    120
gagtggagat ggcaacacag gcacacaaac caatggtctg gactttcaga agcagcctgt    180
gcctgtagga ggagcaatct caacagccca ggcgcaggct ttccttggac atctccatca    240
ggtccaactc gctggaacaa gtttacaggc tgctgctcag tctttaaatg tacagtctaa    300
atctaatgaa gaatcggggg attcgcagca gccaagccag ccttcccagc agccttcagt    360
gcaggcagcc attccccaga cccagcttat gctagctgga ggacagataa ctgggcttac    420
tttgacgcct gcccagcaac agttactact ccagcaggca caggcacagg cacagctgct    480
ggctgctgca gtgcagcagc actccgccag ccagcagcac agtgctgctg gagccaccat    540
ctccgcctct gctgccacgc ccatgacgca gatccccctg tctcagccca tacagatcgc    600
acaggatctt caacaactgc aacagcttca acagcagaat ctcaacctgc aacagtttgt    660
gttggtgcat ccaaccacca atttgcagcc agcgccagtt tatcatctca cagacgcccc    720
agggccagca gggtctcctg caagcgccaa aatcttctaa cgcaactacc tcggcaaagc    780
caagccaacc tcctacagtc gcagccaagg attaaccctc acttcccagc cagcaacccc    840
aacatgcaca atagcagcaa cccccattca gacacttcca cagagccagt caacaccaaa    900
gcgaattgat actcccagct tggaggagcc ccagtgacct tgaggagctt gagcagtttg    960
ccaagacctt caaacaaaga cgaatcaaac ttggattcac ctcagggggga tgctgggctc   1020
gctatggtga aactatatgg aaatgacttc agcccaacta ccatctttcg atttgaagcc   1080
ttgaacctca gctttaagaa catgtgcaag ttgaagccac ttttagagaa gtggctaaat   1140
gatgcagaga acctctcatc tgattcgtcc ctctccagcc caagtgccct gaattctcca   1200
ggaattgagg gcttgagccg taggaggaag aaacgcacca gcatagaagc ccaacatccg   1260
tgtggcctta gagaagagtt tcttggagaa tccaaaagcc tacctcggaa gagatcacta   1320
tgattgccga tcagctcaat atggaaaaag gggtgattcg tgtttggttc tgtaaccgcc   1380
gccagaaaga aaaaagaatc aacccaccaa gcagtggtgg ggaccagcag ctcacctatt   1440
aaagcaattt tccccagccc aacttcactg gtggcgacca caccaagcct tgtgactagc   1500
agtgcagcaa ctaccctcac agtcagccct gtcctccctc tgaccagtgc tgctgtgacg   1560
aatctttcag ttacaggcac ttcagacacc acctccaaca acacagcaac cgtgatttcc   1620
acagcgcctc cagcttcctc agcagtcacg tcccccctctc tgagtccctc ccctttctgcc   1680
tcagcctcca cctccgaggc atccagtgcc agtgagacca gcacaacaca gaccacctcc   1740
actccttttgt cctcccctct tgggaccagc caggtgatgg tgacagcatc aggtttgcaa   1800
acagcaggca gctgctgcct ttcaagggag ctgcacagtt gccagcaaat gccagtcttg   1860
ctgccatggc agctgctgca ggactaaacc caagcctgat ggcaccctca cagtttgcgg   1920
ctggaggtgc cttactcagt ctgaatccag ggaccctgag cggtgctctc agcccagctc   1980
taatgagcaa cagtacactg gcaactattc aagctcttgc ttctggtggc tctcttccaa   2040
taacatcact tgatgcaact gggaacctgg tatttgccaa tgcgggagga gcccccaaca   2100
tcgtgactgc ccctctgttc ctgaaccctc agaacctctc tctgctcacc agcaaccctg   2160
ttagcttggt ctctgccgcc gcagcatctg cagggaactc tgcacctgta gccagccttc   2220
acgccacctc cacctctgct gagtccatcc agaactctct cttcacagtg gcctctgcca   2280
gcgggggctgc gtccaccacc accaccgcct ccaaggcaca gtgagctggg cagagctggg   2340
ctgccagaag ccttttttcac tctgcagtgt gattggactg ccagccaggt taataaactg   2400
aaaaatgtga ttggcttcct ctcgccgtgt tgtgagggca aaggagagaa gggagaaaaa   2460
aaaaaaaaac ccccccccc ccttcccccc ttcccaaaaa aaaaaaaag gggggggcc   2520
ggacctttgg cctatttttg taataaaaca ctgtcttttc aggattgctt catggattgg   2580
agaactttct aaccaaaaat taaaaaaaaa aaagggggg gg                       2622
```

<210> 6690
<211> 1558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1533)...(529)
<223> similar to gi4809026 in the genepept database release 114,

```
        <400> 6690
agttccctgt gataatttct caaagttctc attaaaaact taagaaaaag gtaaataaac    60
caaacatctt catagaaaaa ttgtatttac aactccattc aaaagcagtt tttaaaagca   120
aacacaatgt aacactgaag gtgaaaaatc taagctcacc caaagctgcc aggtctaata   180
aattactgac agaatactgt atcaaaaata aggcaataac cgaaaatata ccattaaaga   240
tttctccatc cccacaacta gatagaatga atctatctag gagcaaatga catgctttat   300
tcagtttcac catgtctgaa atctttaagg acagaagtga taaaatgtta tcttcattct   360
tcattagact tgaacacttg aaggaaaata atttctaaag cacaaagagg taaagaagta   420
taatctttca aaaagatatt cagtgttcaa aattcaagaa tgcaatatca atacacaatg   480
ggcattaggt gaatatacac aatacgatga gagcaaatta atttatttag tacttttttcc  540
attccatatc atcaggagga ttgatttcaa cttttccttt acctacatca gaccagttgg   600
tactcaaaac tgtaccaccc gactccataa aggatttgtt catggcacgt ttcacttcat   660
cagaaccatc tgaatagatc tgctgaaata atctgtttaa agctgcatct ccctccaact   720
tttcattctt ttcttcttct ttgatctcac caaccaattt atcccaattt cttgtataag   780
gagatgatga tggatatagg ttctttacat ctgctacgaa ttgttttggc gtaggcacat   840
ctccttgccc ctctagcttt tcccatctca cagcctctgg ctttttcagt ttaatttcaa   900
tctttgttga aagtactta aacgtgctct gttctggtat tataggatga agaagttcca   960
gtttcaaatt gtaatcctct ccagaaggaa gtttaaccaa agcagacaac tctttttctg  1020
aaaattccac atttacatca ttcttctgaa cattcttgat cataagtgta atgactactt  1080
gagattctgt ttgataccag tcatacttga tttttgactg atgagtccac acctcagatt  1140
ctgagccatt ctgagcttct tgacaccttt taatccagac actgaaatta gcatctgcac  1200
tatctaattt ttgtccttct gtaaaagttt ctagggcagc agcatagttt ttttcatggt  1260
attcacatat tccttttctc agcatagcag tggaattatt tggattgagt tctagagact  1320
tctttgcatc agcaacagca acacagtaat tcccaagaag aatgtgacaa taagctcttt  1380
gacaataata ctgtgcatca tctggtttct gttccaaagc cttagtcagc tcctctaacg  1440
ccgcctgggg gtcctcgtcg attagggcat ccgagaagct ctggaaaaac acctctggga  1500
tgttgcagtt cctgctgcag ccgccgccat ccctcgtagt cgctgttctg ccgccgga    1558
```

```
        <210> 6691
        <211> 2179
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1880)...(973)
        <223> similar to gi1695155 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6691
ttttttttt ttaatattag caaagtttta ctttttttttt ttctgctcat aaatgactct    60
gaaaaagcca atacgcaaga ggctaacaca actgtagtct aaaggcaacg tcgaggtcac   120
tgatatgtcc ctcagacaag aggcactgct cagaatcccc ctgtgctggg ggtgagggaa   180
ggaggggacg gtttaggaca gaggaataaa tacatgtggt tgtgggagtt ctgccatcag   240
ggatggtggc cccagcccag gaccccaaaa ccctgaggcg gtgcagtggg ctgccaaccc   300
```

```
cccagctcgg ggttccccaa ggctgcctca gtgtttggat gggctggaag gaaatgctga    360
ggttctggga gggccccatg gccagccccc tcttcccact ctagccagag gagagccaag    420
ctcccggctg gccagggccc tggggtaggg agcagtgccc ccaagagggc tttctggtgt    480
caatgtctca tgcagcgtca ggtggtgagg cctgggcctg gccctgaggc gggagtgggg    540
gtgacaggcg aggctggggt gggccctggc acctgcagct ttgggctgcc catgtgtgtc    600
tgctgacatc ccgactatgg tccacggccg ggaatggtgg gcagacgggg ctgctggcag    660
ccctcagcct tatagtgtgt gtgtggggtg gacgaggggt catgaggaca gggatggggc    720
tgggcgtctc tggtaaggac cagtaagtgc caggcaggac gtactctgaa ggctcagccg    780
tggcccatct gggacacagc cctgctcccg aaggggctcc aggggaactg ctcagccagg    840
tgattcacca gggcacgggc aggccaggct gaacccgggg ccccagtgtg cgatgtgggg    900
aggtgactgg gtgagcgtga acagggcgtg gggtgcgcgg ggcgggtggc cgtgtgaccg    960
tgcccggccc tcagaagacg aagcagcgct ccgtggggtg gcccacgtgg tcccaggttg   1020
ggaaggcagg cgtactggat catgggtggg gggccacaca tcagcaccag cggctcctcc   1080
ctctgggggt ggaaggtggt cccggatcat ctcctcattc acgaagcccc tggccgtagt   1140
cccaggcttc aggggctctg tccagcgtgt accagagctt gaagcgtgca gaatgtttgt   1200
tcctgagttc ctccagctca ggtcgcagca ggatgtcctt ctcggtctgg ttggcaaaga   1260
gcaggtggca cacagtgtgg tcatcagggt ccttcatgat ggcgcggatc acctgcagca   1320
tcggggtgat gcctgtccct cccgcgatca tgcccacaga cttcactgtc ctgatgatag   1380
ggttggactt tttgtcaggt cggatggcga acttcccttt gccctggtag accagcagcc   1440
cactggggcc ccggaactca atggtgtctc caatctgcat gctctccagg tactgagaca   1500
tcttccctcc agcgggaaac ttgggatggg tgtccttgaa gtaaaccttg atgaccaggt   1560
ccacgaagcc cttgtcatca tcgctggaga tgggtgtata gggccggacg accaggtttc   1620
catcaattcg agccgagagg tagatgtgct ggccgacagg gaggcccagg atgtgctggg   1680
gtgacggcag ggcaaagcgg aagcgccggg tgtcatggct gatgatctcc cggtcgatga   1740
gccgcagcgg gtacttgatg tccgggctct cgagggtgat ggctggcgtg gagcgctgga   1800
acagcttcat gagcagactg tacaggaacc agactgggaa gagcaccata tggcccaacg   1860
tgctgagctg ggcccccatg gtggccccgc gccgcgctcg ctctgtcgcc gccgccgccg   1920
ccgccgagac cgtcgcgccc gggcccgcgt cactccggag caggggcggg gccgagggc   1980
caggcgggcg cgcggggcgg ggcgggcgcg ggggcgggga ccgggtcgct ccgcctgctt   2040
ctgccgggga tggagactgg gaactgggga tgcggccctc tgcgctccga gctctcccgc   2100
gctgtgctgc cccgcgcggg acggtggcct ctctgggcct cgttcgccgc cataaaggaa   2160
gcaagatggc gcccccggg                                                 2179
```

<210> 6692
<211> 1911
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1812)...(785)
<223> similar to gi556389 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6692
```
tttttttttt ttaccagtat agaaatttat ttgaattcaa aataatatgg ctatatttat     60
aataatataa taattatcta aagcaaatat catcattggc tctgaaatgc gtctaaagat    120
gtcattctta agtcaaaaaa tatgtagtaa gaatgtccaa gaaagaaaaa aatataaaac    180
caagtctgct gagtgtcggg agttggtgag ggatatccta ccatattgtg acggagtcca    240
aatagaaaac atgcagcaac agttctcctg ctttatcagc tccctggaaa ataaaccagt    300
```

5353

```
aaccctggta gtgcagtaac catttggtta acaggacaaa cttcctgatg gacacagata    360
gtaattcact gcatttccct tctctaactt ctctcttcac accaattcct tttctttcct    420
ttaagatggg tttcatcctg ttgacaaaag atttggtttt atttgtaaag taaagcagat    480
aatatcctga ttgaagtatt caatgattta gttgaggatg cttggggatc aaactttgta    540
aaaaggtcaa ttaagctagt tagcagagac tatcagtggc ttgcagaaaa aaaattcgga    600
taatatgttt gttaaaaaga caaaaagaat aagcggtgaa aaatcctagg gattactgtg    660
acctagacaa tcaaaagcag ataggtgacc tttgattaaa tccatttact tgtggagtga    720
gctaaaagga ggctccaaga cagagtttgg ttcccaacag tgtccgtggc caaagggcac    780
actcagaagg tctcctcctc tcgtaggaac tggaacacgg atgagaagtc tttctttgag    840
tagccctttg cacacatcat cctgtagatc tgatgggcca gactgccaag aaggattggg    900
ctctttgtgc tggtagcaga gtcttgtgcc aatcccagat ccttagccat gagtgttgtt    960
ccaaatccac cctgatagtt attagccgag ggaacgccat ccatcactcc aggtacagga   1020
ttataagtgt cacttgacca acaccgtcct gagctcatat ttaggatttt agccagtagt   1080
tttgggtcaa gccctaacct gattccaaga ttcatagctt cagcagttcc aatcatacta   1140
atagctaaca gcatgttgtt gcagatcttt ccgcctgcc cagtcccaac agctccacag   1200
tacaccacgt tggagcccat gcaccccagc aactcttggg cagcagcaaa ttcatcttca   1260
actcctccca ccataaacgt gaggttccca gatcgtgcag ctcctacacc accagaaaca   1320
ggggcatcca tgaaaactgc tcccattttc tcaacttctt tggccaattc ttttgaaact   1380
gcaggatcaa tagtgctgga atctattaat aatgagccct tcttcacttt ttttagaatc   1440
ccatttgctc cggaataagc ttctattgca ttgatactgg tgggcagcat tgtaataatt   1500
ctgtcagctt tttcagcaac atctgctggg gaagatacta cctgttcacc tgcatcttga   1560
aactctttgc aggcatcagg gaacacatca taaataataa gtggatagcc atgtttcatg   1620
agattttttg ccattggatt ccccatgttg cccagtccaa tgaatccaac tggagtcttt   1680
gaagccactg acctagaaca caccgctgca aagctgccgg ctgccggccg cagccgccgg   1740
ctccagtacc ggagaccgga ggcagctccg aggagccgta aggaggctgc catgctgcgc   1800
ccgcccctct ccccgcggtg acctccgccg cctcccggag ggcccacaga ctgcgagcgt   1860
gtgcagcggg actggctggc cggacgcgtg ggtcgaccca gggcatctgc a            1911
```

```
            <400> 6693
agcacctgct ccacagatgg tttggcactg atatgcagat gattaatttc acaactggtg     60
aattccagct caccgaagct tgcccttacc tgggtacgca ttctgaggaa tccaggtttg    120
gcatcctcca cttacatctg cagcctttgg aaatgaaaag ggttggcgta gttttcacac    180
ctgctgacta tggaaaagtt acctcactca tactaatccg gaataacttg actgttattg    240
acatgattgg cgtggaagga tttggagcaa gagagttatt aaaagtgggt ggaagacttc    300
ctggtgcagg aggctcactc cgatttaagg tgcccgagtc cacgctgatg gactgccgta    360
gacaactgaa agacagtaag caaattttat ctattacaaa gaactttaaa gttgagaata    420
ttggacctct tcctataact gtttcgtctc tgaaaattaa tgggtataac tgccaaggtt    480
atggattcga ggtgctggat tgtcatcagt tttccctgga cccaaacaca tcccgcgata    540
tcagcattgt gttcactcca gactttacct cctcctgggt aattcgggac ctaagtcttg    600
```

```
taaccgcagc ggacctagaa tttcgcttca ctctcaatgt gactctccct catcacctgt       660
tgcccttgtg tgcagacgtg gttccaggac ccagctggga ggagtcattt tggaggctca       720
cggtcttctt tgtcagtttg tccctgttgg gtgtgatttt aatagccttc caacaagcac       780
agtacattct catggaattc atgaaaacaa gacagaggca aaatgctagc tcctcttcac       840
agcaaaacaa tggtcctatg gatgtaatca gcccccattc ttacaaaagc aattgcaaga       900
actttctcga tacatatggc ccctctgata aaggcagggg gaagaactgc cttccagtga       960
acactcccca aagcaggatc cagaatgctg caaagaggag cccagccacc tatggtcatt      1020
ctcagaagaa gcacaaatgc tcagtgtatt acagtaaaca caaaaccagc acagctgcgg      1080
ccagcagcac cagcacgact actgaggaaa aacagacttc acccctgggc agctcactgc      1140
ctgctgctaa agaggacatt tgcactgatg ccatgcgtga gaactggatc agcctcagat      1200
atgcaagtgg cataaatgtc aacctgcaga agaatttaac ccttcccaaa aacttactga      1260
ataaagaaga aaacacactg aaaaacacaa ttgttttcag taatccttct tcagaatgta      1320
gtatgaagga gggaatacag acatgtatgt ttcctaagga aactgacatt aaaacttcag      1380
agaacacagc cgagttcaag gaacgggagc tctgtccact gaagacctcc aagaaactac      1440
ctgaaaacca tttaccaaga aactcacctc agtaccacca gccagacttg ccagaaattt      1500
ccaggaaaaa taatgggaat aaccagcaag tacctgtcaa gaatgaagta gatcattgtg      1560
aaaatttgaa gaaggtggac acaaagcctt cttcagaaaa gaagattcac aaaacatcta      1620
gagaagacat gttttctgag aaacaggaca tacctttcgt agagcaagaa gatccttata      1680
ggaagaaaaa gcttcaggag aaaagagaag gaaatttaca aaatttaaat tggagtaaaa      1740
gtcgaacatg tagaaagaac aagaaaaggg gtgttgctcc agtctcaagg cctcctgaac      1800
agagtgatct aaagcttgtg tgcagtgact ttgagaggtc tgagctgagc agtgacatca      1860
atgtaagaag ctggtgtata caggaaagca ctagggaggt ttgtaaagca gatgccgaaa      1920
ttgcaagcag tttacctgct gcccagagag aggcagaagg ttactaccag aagcctgaga      1980
agaaatgtgt ggacaagttc tgctccgatt ccagctctga ctgtgggagc tcctctggca      2040
gcgtgcgtgc cagccggggc agctgggggga gctggagcag caccagcagc tccgacgggg      2100
ataagaagcc catggtggac gcccagcact tcctgccggc cggagacagt gtttcacaaa      2160
atgatttttcc ttctgaagct cccatctcct tgaatctttc tcataacatc tgcaatccca      2220
tgaccgggaa tagtctccca caatacgcag agccttcctg tcccagcctt cctgccgggc      2280
ccacaggtgt tgaagaagat aaaggtcttt actcacctgg agacctgtgg cccactccgc      2340
cagtgtgtgt gacaagcagc ttaaactgca ccctggagaa cggcgtgcct tgtgtgattc      2400
aggagtcggc cccggttcat aatagtttca ttgattggag tgcaacatgc gaaggccagt      2460
tttccagcgc atactgtcca ttggaattga acgattacaa tgcctttcca gaagaaaaca      2520
tgaactatgc caatggcttc ccctgtcctg cagatgttca gacagacttt attgatcaca      2580
actctcagtc tacctggaac accccacccc aacatgcctg cctccctggg gaaatgccca      2640
gtttccatcg agctctcggc cctacctcaa aagcaccccg aaagcttgtc tcccaatgtc      2700
tggacttttt ggtcccatcc tgggccccgc caaagcgatg tgtatgaaaa ttgctgcccc      2760
atcaaccccca ccacggaaca ttcggacccc acatggaaaa ccaagcgggt cgtgtgcaag      2820
gaatactacc cggggttcaa acccgtttcg cgcctatatg aacctggaca tatggactac      2880
cacacgcgaa taggaatgca aatttcccac tgtctagaga ctcgagttac tgtgggaatg      2940
tgtgaaaata attggatttt taatacaatg tgaataaaga ggcttgtgtt ttgattacta      3000
gtgtaaactg gttattgaga tagattatga cattgttgga tattttggca cttttatatg      3060
aaaataaatt ttttaatgaa aaaaaaaaa aa                                     3092
```


<210> 6694
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (391)...(741)
<223> similar to gi1340174 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6694

```
ctagtccagt gagctggaat tcgcgccttc aacttgccag gcactaatta gactagcgca     60
gagaaacggg gataagtact gatgagggtc ccagccctca gcgatcggat ttcagagggg    120
gagataaagg actgcccaga agggtggtga gtggagtagt tgatataaac aacgaggtgc    180
gatgaaatac acaggagggc tgctaatcac atatggggtg ggtgccgagg gcccttaatt    240
aagggaggct tcctggacgg gtgacaccca agcggagtcc tgacgacccg cgtcagaagt    300
agtcaggcga ggaggagggt aaaggaatcc acgtcccaag cagagaagca gctttcccta    360
cacagcacag gacacggtcc gcgcacagaa gccgcaggag acgcaggcac aggggctggg    420
gagaatcctt gctgggccct cgccgcctcc ctctgccggg tgtctggtgc cagcctcctg    480
cctggcagag gagctccagc ccctgctccc ggaagcccct ccaggccttc ggcttccctg    540
actgggcatg ggcccctcgt cccctcgtcc cctcgggtac ggggccggtc tccccgcccg    600
cgggcggcga agtaaaggcc cagcgcagcc cgcgctcctg ccctggggcc tcgtctttct    660
ccaggaaaac gtggaccgct ctccgccgac aggtctcttc cacagacccc tgtcgccttc    720
gcccccggtc tcttccggtt ctgtcttctc gctg                                754
```


<210> 6695
<211> 2297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2298)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (73)...(1965)
<223> similar to gi3808148 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6695

```
ttgcagccgc gctgcgcgca ccgcgggctc cgggctcaga agtgcggacg cccggctccc     60
ggcgtggacg ccatggtgct gtgcccggtg attgggaagc tgctgcacaa gcgcgtggtg    120
ctggccagcg cctcccacg ccgtcaggag atcctcagca acgcgggtct caggtttgag    180
gtggtcccct ccaagtttaa agagaagctg gacaaagcct ccttcgctac tccgtatggg    240
tacgccatgg agaccgccaa gcagaaggcc ctggaggtgg ccaaccggct gtaccagaaa    300
gacctgcggg cccccgacgt ggtcattgga gcggacacga tcgtgacggt cggggggctg    360
attctggaga agccggtgga caagcaggac gcctacagga tgctgtcccg gtttgagttg    420
ggagagaaca cagcgtgttc acaggtgtcg cgatcgtcca ctgctccagc aaagaccatc    480
agctggacac cagggtctcg gaattctacg aggaaacgaa ggtgaagttc tcggagctgt    540
ccgaggagct gctctgggaa tacgtccaca gcggggagcc catggacaaa gctggcggct    600
acgggatcca ggccctgggc ggcatgctgg tggagtccgt acacggggac tttctgaacg    660
tggtgggatt cccgctgaac cacttctgca agcagctggt gaagctctac tacccgcccc    720
gtccggagga cctgcggcgg agtgtcaagc acgactccat cccggccgcg gacaccttcg    780
aagacctcag tgacgtggag gggggtggct cggagcccac tcagagggac gcgggcagcc    840
```


5356

```
gcgatgagaa ggccgaggcg ggagaggcgg gacaggccac ggcagaggct gagtgtcaca    900
ggactcggga gaccctgcct ccgttcccga cacgcctcct ggagctgatt gagggcttta    960
tgctatccaa gggcctgctc accgcttgca aactgaaggt gttcgatttg ttaaaagatg   1020
aagcacccca gaaggctgcg gatattgcca gcaaagtgga cgcctctgcg tgtggaatgg   1080
agaggcttct ggacatctgt gctgccatgg ggctcctgga aagacagag caaggttaca   1140
gtaacacaga gacagcgaac gtctacctgg catcggatgg cgaatactct ctgcacggct   1200
tcatcatgca caataatgac ctcacatgga acctctttac atacctggag tttgccatcc   1260
gagagggaac aaaccagcac cacagggcgt tggggaagaa ggcggaagat ctgttccagg   1320
atgcgtacta ccagagcccg gagacgcggc tgaggttcat gcgggccatg cacggcatga   1380
cgaagctgac tgcgtgccag gtggccacgg ccttcaatct gtcccgcttc tcctccgcct   1440
gcgacgtggg aggctgcacc ggtgcactgg cccgagagct ggcccgtgag taccctcgta   1500
tgcaggtgac tgtgtttgac ctcccagaca ttatcgagct ggccgcccac ttccaacccc   1560
ccggaccgca ggcagtgcag atccacttcg cagcaggtga ctttttcagg gaccccctcc   1620
ccagcgctga gctgtacgtc ctgtgccgga tcctgcatga ctggccagac gacaaagtcc   1680
acaagttact cagcagggtc gccgagagct gcaagccagg ggccggcctg ctgctggtgg   1740
agacgctcct ggatgaggag aagagggtgg cgcagcgcgc cctgatgcag tcactgaaca   1800
tgctggtgca gactgaaggc aaggagcgga gcctgggcga gtatcagtgc ttgctggagc   1860
tgcacggctt ccaccaggtg caggtggtgc acttgggggg tgtcctggat gccatcttgg   1920
ccaccaaagt ggccccctga gcccaggca gcatgttcat tataggatg tcctccccca   1980
ggctgcaggt ggaccgcccg gtccccaagt accataggac agtcacatag gagcgtgtag   2040
tcgtgactcc tagcaggcag acggctgctg tgacggtgcc gtctaccagg cagggtctca   2100
gtccttctcc gcactccagc ctgcatcttc ccatcttctg cacgatttcc agtgtgtttc   2160
ctccatggga cgccatcgct gccgctcacc cctggatgcc cacaggctat ggagtggcag   2220
ttctctgggc ggcttccatc tctcctgcct tggtgcagga attccgccgc nctgtacgaa   2280
ggtcatcagt ggtggca                                                   2297
```

```
                            <400> 6696
gattgtttga atttgaaaac ggtaacatcg cagtgctgct cgcgggtctg gctagtcagg     60
cgaagtttgc agaatggaat ctaattttaa tcaagaggga gtacctcgac catcttatgt    120
ttttagtgct gacccaattg caaggccttc agaaataaat ttcgatggca ttaagcttga    180
tctgtctcat gaattttcct tagttgctcc aaatactgag gcaaacagtt tcgaatctaa    240
agattatctc caggtttgtc ttcgaataag accatttaca cagtcagaaa aagaacttga    300
gtctgagggc tgtgtgcata ttctggattc acagactgtt gtgctgaaag agcctcaatg    360
catccttggt cggttaagtg aaaaaaagctc aggggcagat gggcacagaa attcagtttt    420
ttcccaggtt ttttgggccc agcaactaca cagaaggaat tctttcaggg ttgcattatg    480
caccccagta aaagacctct tgaaaggaca gagtcgtctg atttttactt acgggctaac    540
caattcagga aaaacatata catttcaagg gacagaagaa aatattcgca ttctgcctcg    600
aactttgaat gtattatttg atagtcttca agaaagactg tatacaaaga tgaaccttaa    660
accacataga tccagagaat acttaaggtt atcatcagaa caagagaaag aagaaattgc    720
```

5357

```
tagcaaaagt gcattgcttc ggcaaattaa agaggttact gtgcataatg atagtgatga    780
tactctttat ggaagtttaa ctaactcttt gaatatctca gagtttgaag aatccataaa    840
agattatgaa caagccaact tgaatatggc taatagtata aaattttctg tgtgggtttc    900
tttctttgaa atttacaatg aatatattta tgacttattt gttcctgtat catctaaatt    960
ccaaaagaga aagatgctgc gcctttccca agacgtaaag ggctattctt ttataaaaga   1020
tctacaatgg attcaagtat ctgattccaa agaagcctat agactttaa aactaggaat   1080
aaagcaccag agtgttgcct tcacaaaatt gaataatgct tccagtagaa gtcacagcat   1140
attcactgtt aaaatattac agattgaaga ttctgaaatg tctcgtgtaa ttcgagtcag   1200
tgaattatct ttatgtgatc ttgctggttc agaacgaact atgaagacac agaatgaagg   1260
tgaaaggtta agagagactg ggaatatcaa cacttcttta ttgactctgg gaaagtgtat   1320
taacgtcttg aagaatagtg aaaagtcaaa gtttcaacag catgtgcctt tccgggaaag   1380
taaactgact cactattttc aagttttttt aatggtaaag ggaaaatttg tatgattgtc   1440
aatatcagcc aatgttattt agcctatgat gaaacactca atgtattgaa gttctccgcc   1500
attgcacaaa aagtttgtgt cccagacact ttaaattcct ctcaagagaa attatttgga   1560
cctgtcaaat cttctcaaga tgtatcacta gacagtaatt caaacagtaa aatattaaat   1620
gtaaaaagag ccaccatttc atgggaaaat agtctagaag atttgatgga agacgaggat   1680
ttggttgagg agctagaaaa cgctgaagaa actgaagatt aggggaaact aaacttcttg   1740
atgaagatct agataaaaca ttagaggaaa ataaggcttt cattagccac gaggagaaaa   1800
gaaaactgtt ggacttaata gaagacttga aaaaaaaact gataaatgaa aaaaaggaaa   1860
aattaacctt ggaatttaaa attcgagaag aagttacaca ggagtttact cagtattggg   1920
ctcaacggga agctgacttt aaggagactc tgcttcaaga acgagagata ttagaagaaa   1980
atgctgaacg tcgtttggct atcttcaagg atttggttgg taaatgtgac actccgagaa   2040
gaagcagcga aagacatttg tgccacaaaa gttgaaactg aagaagctac tgcttgttta   2100
gaactaaagt ttaatcaaat taaagctgaa ttagctaaaa ccaaaggaga attaatcaaa   2160
accaaagaag agttaaaaaa gagagaaaat gaatcagatt cattgattca agagcttgag   2220
acatctaata agaaaataat tacacagaat caaagaatta agaattgat aaatataatt   2280
gatcaaaaag aagatactat caacgaattt cagaacctaa agtctcatat ggaaaacaca   2340
tttaaatgca atgacaaggc tgatacatct tctttaataa taaacaataa attgatttgt   2400
aatgaaacag ttgaagtacc taaggacagc aaatctaaaa tctgttcaga aagaaaaaga   2460
gtaaatgaaa atgaacttca gcaagatgaa ccaccagcaa agaaagggtc tatccatgtt   2520
agttcagcta tcactgaaga ccaaaagaaa agtgaagaag tgcgaccgaa cattgcagaa   2580
attgaagaca tcagagtttt acaagaaaat aatgaaggac tgagagcatt tttactcact   2640
attgagaatg aacttaaaaa tgaaaaggaa gaaaagcag aattaaataa acagattgtt   2700
cattttcagc aggaactttc tctttctgaa aaaaagaatt taactttaag taaagaggtc   2760
caacaaattc agtcaaatta tgatattgca attgctgaat tacatgtgca gaaaagtaaa   2820
aatcaagaac aggaggaaaa gatcatgaaa ttgtcaaatg agatagaaac tgctacaaga   2880
agcattacaa ataatgtttc acaaataaaa ttaatgcaca cgaaaataga cgaactacgt   2940
actcttgatt cagtttctca gatttcaaac atagatttgc tcaatctcag ggatctgtca   3000
aatggttctg aggaggataa tttgccaaat acacagttag accttttagg taatgattat   3060
ttggtaagta agcaagttaa agaatatcga attcaagaac ccaataggga aaattctttc   3120
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aaaagtcatc agattgagga actggaacaa caaattgaaa aattgcaggc agaagtaaaa   3240
ggctataagg atgaaaacaa tagactaaag gagaaggagc ataaaaacca agatgaccta   3300
ctaaaagaaa aagaaactct tatacagcag ctgaagaag aattgcaaga aaaaaatgtt   3360
actcttgatg ttcaaataca gcatgtagtt gaaggaaaga gagcgctttc agaacttaca   3420
caaggtgtta cttgctataa ggcaaaaata aaggaacttg aaacaatttt agagactcag   3480
aaagttgaac gtagtcattc agccaagtta gaacaagaca ttttggaaaa ggaatctatc   3540
atcttaaagc tagaaagaaa tttgaaggaa tttcaagaac atcttcagga ttctgtcaaa   3600
aacaccaaag atttaaatgt aaaggaactc aagctgaaag aagaaatcac acagttaaca   3660
aataatttgc aagatatgaa gcatttactt caattaaaag aagaagaaga agaaaccaac   3720
aggcaagaaa cagaaaaatt gaaagaggaa ctctctgcaa gctctgctcg tacccagaat   3780
cctgaacgca gatcttcaga ggaaggaaga agattatgct gacctgaaag agaaactgac   3840
tgatgccaaa aagcagatta agcaagtaca gaaagaggta tctgtaatgc gtgatgagga   3900
taaattactg aggattaaaa ttaatgaact ggagaaaaag aaaaaccagt gttctcagga   3960
attagatatg aagcagcgga accattcagc aactcaagga gcagttaatt aatcagaaag   4020
tggaagaagc tatacaacag tatgagagag catgcaaaga tctaaatgtt aaagagaaaa   4080
taattgaaga catgcgaatg acactagaag aacaggaaca aactcaggta gaacaggatc   4140
```

5358

```
aagtgcttgg aggctaaatt ggaggaagtt gaaaggctgg ccacagaatt ggacagatgg   4200
agggtaaaat gcaatgattt ggaaaccaaa aacaatcaaa ggtcaaataa agaacatgag   4260
aacaacacag atgtgcttgg aaagctcact aatcttcaag atgagttaca ggagtctgaa   4320
cagaaatata atgctgatag aaagaaatgg ttagaagaaa aaatgatgct tatcactcaa   4380
gcgaaagaag cagagaatat acgaaataaa gagatgaaaa aatatgctga ggacagggag   4440
cgtttttta agcaacagaa tgaaatggaa atactgacag cccagctgac agagaaagat   4500
agtgaccttc aaaagtggcg agaagaacga gatcaactgg ttgcagcttt agaaatacag   4560
ctaaaagcac tgatatccag taatgtacag aaagataatg aaattgaaca actaaaaagg   4620
atcatatcag agacttctaa aatagaaaca caaatcatgg atatcaagcc caaacgtatt   4680
agttcagcag atcctgacaa acttcaaact gaacctctat cgacaagttt tgaaatttcc   4740
agaaataaaa tagaggatgg atctgtagtc cttgactctt gtgaagtgtc aacagaaaat   4800
gatcaaagca ctcgatttcc aaaacctgag ttagagattc aatttacacc tttacagcca   4860
aacaaaatgg cagtgaaaca ccctggttgt accacaccag tgacagttaa gattcccaag   4920
gctcggaaga ggaagagtaa tgaaatggag gaggacttgg tgaaatgtga aaataagaag   4980
aatgctacac ccagaactaa tttgaaattt cctatttcag atgatagaaa ttcttctgtc   5040
aaaaaggaac aaaaggttgc catacgtcca tcatctaaga aaacatattc tttacggagt   5100
caggcatcca taattggtgt aaacctggcc actaagaaaa aagaaggaac actacagaaa   5160
tttggagact tcttacaaca ttctccctca attcttcaat caaaagcaaa gaagataatt   5220
gaaacaatga gctcttcaaa gctctcaaat gtagaagcaa gtaaagaaaa tgtgtctcaa   5280
ccaaaacgag ccaaacggaa attatacaca agtgaaattt catctcctat tgatatatca   5340
ggccaagtga ttttaatgga ccagaaaatg aaggagagtg atcaccagat tatcaaacga   5400
cgacttcgaa caaaaacagc caaataaatc acttatggaa atgtttaata taaatttat   5460
agtcatagtc attggaactt gcatcctgta ttgtaaatat aaatgtatat attatgcatt   5520
aaatcactct gcatatagat tgctgtttta tacatagtat aatttaatt caataaatga   5580
gtcaaaattt gtatatttt ataaggcttt tttataatag cttctttcaa actgtatttc   5640
cctattatct cacacattgg atcagtgaag atcctaggaa agaggctgtt attctcattt   5700
attttgctat acaggatgta ataggtcagg tatttggttt acttatattt aacaatgtct   5760
tatgaatttt ttttacttta tctgttatac aactgatttt acatatctgt ttggattata   5820
gctaggattt ggagaataag tgtgtacaga tcacaaaaca tgtatataca ttatttagaa   5880
aagatctcaa gtctttaatt agaatgtctc acttattttg taaacatttt gtgggtacat   5940
aggacatgta tatatttacg gggtatgtga gatgtttga cacaggcatg caatgtgaaa   6000
tacctgtatc atggagaatg aggtatccat cccctcaagc attttttcctt tgaattacag   6060
ataatccaat tacattcttt agatcattta aaaatataca agtaagttat tattgattat   6120
agtcactcta ttgtgctatc agatattaaa tcattctttt tatcttattt gtttttgtac   6180
ccattaacca tcccacctc cccctgcaac cgtcagtacc cttaccagcc actggtaacc   6240
attcttctac tctgtatgcc catgaggtca attgatttta tttttagatc ccataaattc   6300
gacgcggccg                                                           6310
```

```
<210> 6697
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)...(573)
<223> similar to gi434977 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



<400> 6697
```

```
ggcggcattc gaggctcggc gctcaggaag catggcactc tggcgggcat accagcgggc        60
cctggccgct cacccgtgga aagtacaggt cctgacagct gggtccctga tgggcctggg       120
tgacattatc tcacagcagc tggtggagag gcggggtctg caggaacacc agagaggccg       180
gactctgacc atggtgtccc tgggctgtgg ctttgtgggc cctgtggtag gaggctggta       240
caaggttttg gatcggttca tccctggcac caccaaagtg gatgcactga agaagatgtt       300
gttggatcag gggggctttg ccccgtgttt tctaggctgc tttctcccac tggtaggggc       360
acttaatgga ctgtcagccc aggacaactg ggccaaacta cagcgggtga gctgggcagg       420
attatcctga tgcccttatc accaactact atctatggcc tgctgtgcag ttagccaact       480
tctacctggt cccccttcat tacaggttgg ccgttgtcca atgtgtgtct gttatctgga       540
actcctacct gtcctggaag gcacatcggg ctctaagcct gcctcactcc atcgtttcca       600
ccttgcaagt gatgcagctt gaccgctgga acgggtcaga caaccctcct caaaagtggg       660
cataccagtt tcccacgggg gttgggttgc cggtcaggag cttaagagga ctagcaccct       720
gcaaatgccc ctcttcactc taaaatgtac actgactgct ttagagccct tgataatagt       780
cttaattccc accacatact aaggcactcc ataaatatct gttgaacctt catgacctta       840
tcaactttta cacccaatat cccagcaaat gccactcatc cccactcttc atagacacat       900
ttgttactct aaccctgcct aggcttcttg tagctccagc tctttagaga ctcccggaac       960
cctttatatg gtgcctcagt aaatatgtta ttaaatatgt aatccggaaa aaaaaaa       1017
```

<210> 6698
<211> 1572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1271)...(419)
<223> similar to gi4406663 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


```
       <400> 6698
       tttttttttt ttccacaaat aaagtgtttt atttacagga gttgtctctc caggtcccag        60
       ctccctgcca cccccacccc agccccaggg agaagagggc ggatgccaga ggagctggca       120
       gaggctgggc aggtcctgag tgggccaggc taggccaaga gagaaggcac gaggccctgg       180
       gcgccccagt cccagggcag aggccaggcc tgcctggaga aggcagcacg gggtcagctc       240
       tcaggggtca ggctgggttc cacgccgccg cagctctgct cataagacgt ggggcctca       300
       taggggtagc cccaagaact gtactctgga ggaagaatca aggtgctggt agtgggcact       360
       ggccccccgg agccctctgc aaagtagggg acagtggcac ctgttgaaat gcacaaggga       420
       gggtgcagcg ggtgtgaggc agggctgcca tcctgagggc agggctccgg cgcaccaggc       480
       acagaactca aggtggccag caggggctgc cgctgcgaat ggctcttggt ggagaggaag       540
       acggggtcca agaagtgggg gccgccagcc gcagcctcag cctcagcctc ctcctggggt       600
       ggtgcggaag gcaccaccag gggtggggcc ccaggaggca gccccaggcc tggccggggg       660
       ctcactgggg catggttcac agcaatattg ccaatgaaga ccgggagggt cacagtagct       720
       tccggcgcct tcagagagac ctgtaagtag tagtcgatgt ggatgaggct gcagcccggc       780
       agggccgact ggggcaaggc aggcaccagg atctgctcgt gccactgcgc ccgccgccag       840
       gccttgacgc ccgcaccctc cacctccgca atggtccgta cgtcgtggat ccagcgcttg       900
       gccttatagg acactttctg cagcagactg gccaccacag ggctggtgtc cttgcctgac       960
       tggttctcaa cgtcggcatg cagctgcagt gcctgcccca ccacatagcc gcggagatca      1020
       gtgctggctg tgaggaccac gctgcccgtc ttcaccagct tgtaggagaa cttcttggtg      1080
       gcagaggcca cgttgggttg ctcaatgtct gggatgctgt tcaggttcaa ggggctcaag      1140
       atatagaaca cgaggctgca cttgtgatcc ttggaaaacc gtggcgtgtg gatggcggcc      1200
```

5360
```

```
ctcacctggt gcacgatctt cccgaaagga ccctcaaagg acgtgggtgc agtggcagga    1260
agcaggaact ggaaggggaa gctgtgctct ccagcgggca ggctcccctt gtctgccagc    1320
gacagggaac tgttgaagta accctcctcc actacccacg ctgtgtcatt agccttgttg    1380
gagaccccgc aggaacctat gcaggtcacc cggatggctc ggaacggcag cggtgccccc    1440
aggcgcacgc gcacggtccc agccaacggc tccccggggc tgtagacgac gcggccgtgg    1500
ctcaggctga tctcgaagag ctgcactcgc cccatgccgc gctcaccggc cagccgcagc    1560
gcctcgtccg aa                                                        1572
```

<210> 6699
<211> 1388
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (139)...(905)
<223> similar to gi4808227 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6699
```
aagacttgcc ccaaattaac ctgtgccttc acagtctctg ttccagattc ctgctgccgg      60
gtatgcagag gagatggaga actgtcatgg gaacattctg atggtgatat cttccggcaa     120
cctgccaaca gagaagcaag acattcttac caccgctctc actatgatcc tccaccaagc     180
cgacaggctg gaggtctgtc ccgctttcct ggggccagaa gtcaccgggg agctcttatg     240
gattcccagc aagcatcagg aaccattgtg caaattgtca tcaataacaa acacaagcat     300
ggacaagtgt gtgtttccaa tggaaagacc tattctcatg gcgagtcctg gcacccaaac     360
ctccgggcat ttggcattgt ggagtgtgtg ctatgtactt gtaatgtcac caagcaagag     420
tgtaagaaaa tccactgccc caatcgatac ccctgcaagt atcctcaaaa aatagacgga     480
aaatgctgca aggtgtgtcc aggtaaaaag caaaagaaga acttccaggc caaagctttg     540
acaataaagg ctacttctgc ggggaagaaa cgatgcctgt gtatgagtct gtattcatgg     600
aggatgggga gacaaccaga aaaatagcac tggagactga gagaccacct caggtagagg     660
tccacgtttg gactattcga aagggcattc tccagcactt ccatattgag aagatctcca     720
agaggatgtt tgaggagctt cctcacttca agctggtgac cagaacaacc ctgagccagt     780
ggaagatctt caccgaagga gaagctcaga tcagccagat gtgttcaagt cgtgtatgca     840
gaacagagct tgaagattta gtcaaggttt tgtacctgga gagatctgaa aagggccact     900
gttaggcaag acagacagta ttggataggg taaagcaaga aaactcaagc tgcagctgga     960
ctgcaggctt attttgctta agtcaacagt gccctaaaac tccaaactca aatgcagtca    1020
attattcacg ccatgcacag cataatttgc tcctttgtgt ggagtggtgt gtcagccctt    1080
gaacatctcc tccaaagaga ctagaagagt cttaaattat atgtgggagg aggagggata    1140
gaacatcaca acactgctct agtttcttgg agaatcacat ttctttacag gttaaagaca    1200
aacaagaccc cagggttttt atctagaaag ttattcaagt gaaagaaaga gaagggaatt    1260
gcttagtagg agttctgcag tatagaacaa ttacttgtat gaaattatac ctttgaattt    1320
tagaatgtca tgtgttcttt taaaaaaatt agctccccat tcccccactc cagataaagc    1380
ttcagtta                                                             1388
```

        <210> 6700
```

<211> 2843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2263)...(544)
<223> similar to gi4583679 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6700
```
tttttttttt ttcctttcac aaaatggatt tttattgtgg tcatacatgg tttctcagtg      60
ccacagaaaa ttgctatgta gggacaaaaa atttttggat ggctctgtaa agaaacatgg     120
taggttttca gaaatgagtt gtgcaggaat gtggttaatg aaaagcagaa agggttaagg     180
gaagagaaag gaagccaagg agtgtggtat gtacatcaaa tgattacttt ttaagcccct     240
ctaggctctg ataacccttt ccccaagtca gatcccaaca aaattcatca gtaactgaag     300
tgattgtgct aacagataca taaagactac cggagaaaag tgggttgaga tgggctcaga     360
cttattgtta ggacaactct gggagtcttg tgtctgtgcc aaccacgtat ccgtgggcta     420
cctggagatg agttctaaca accagcccag aacccaaagc tgctctccaa cacctttgtt     480
tagtagggaa aacccgtagt ggggacaaga gaggaagctg tgcccttccc ccaaccaccg     540
tttcatcttc tgctcgctga ccttgatgtg acttgagagc tctccttgct tcggctgtgc     600
agtccagaag ccagaacttc ctctaggaaa cttttcgtgt tgtgcactgt ggtgcctccc     660
aggacaatcc tcactccagg agtggtgcgg ttcaggttat aaactgttag agcctcttca     720
taggtggctc ctccaattac aaacacaatg atatcctgag gtctgtctct gagtgtgctg     780
gggcctaaat aaggatatag gttttcctta agccttcctt tgatgagatg atccagggtt     840
tcatgtagga aaggttgatg ctgtgtatat acattttcta ctcccttcag tcctttgagg     900
aattgtttgg tgatagccac agcatctttg gggctgaaga ggtcacttcc tctgactcgt     960
ttaccaccat attcaacaac tgcagacacg agctttcgat acttctcaga aacaccttta    1020
ttcctgaggt ccatcattag tcctggcagg ctattgctgc tgtgtcgctc ataatgtaaa    1080
gcataaagca tcaccaggcg ggcagcatca aactctgtca ctttggggtt ctgcagaagc    1140
ctttttatat tctggagagc actagaatgg tcattttgac aggccagttc ttgctcaacc    1200
tctgaaacct ccagcagatt ccgttcactg accaatcgag acagttctcc aaccactgtc    1260
acatgctttg aaacagtccc agacattttc ttgaactgtg gataattctc aacaaacgcc    1320
ttcatgtctg ctattgattc tagttttgc tgttctttg gtttcttctt ctgaaaatct    1380
tccatgagat tctttatatt gctaccaatc tcagcaaagt tcaggtacat attattagca    1440
tagaattcat cattttcagc agatgagacc cacttctctt aagtctttac tgattcccgg    1500
cactctggaa agatcaatcc gattgttgtt tatgcctagt agttcgtgga ccatggcctg    1560
atatgtccac tggtttagca atggggtgat ggcatcatcc aagcgatcta aaataaggag    1620
caatggagga acctctgtcc gacggaattt caaacagttc atattcttta gttatcactt    1680
gcttaacgca ctctgcaagt ctctttgctg cctctgatga gagctgataa cgaatcatgg    1740
gacacttctt cagagataaa aggagagctg taagcccttg agttgttcct agatagctgg    1800
gctggatccc aatttcgacc ctggcagcaa ccccaaatta ttgagggaaa acaaatgtgg    1860
gttcacagca atgtaatcac cataaaattc ctgaaacctc agccacaact tcctgttcat    1920
cagcttcagc caatgacttc acgtcactct tgctgatcac attactgaaa taaatgaaat    1980
atatagtgta tttgggtctt cggagctcct gaataatata atccacattc tcctttgtag    2040
gtcgaagaaa acaaattgcc ttcaggtgtt tcatgatctc tcgattttga gaatcaatgc    2100
gttcaaagag gtacacttcc ttctgtagaa tctccgattg tgtgtatacc atactcacta    2160
tgccagtcgt ctctttatcc atgagaagta ctttcatacc aggcccgctg tcctctatca    2220
ttttggaaat gtactgcttc acagcaaaaa ccacgttcat ggcggcgaat tgacaagtac    2280
cctacagccc ttcccgcccc cttttctggc taaattaacc cccagtctgt tggccgggtc    2340
tcagctgctt cctcccagcc gggattcggc ttccgggagt ccgggcagcc acggtgctgg    2400
gagttgtagt tccgctggag tgtacagggg accaagccta ccccgggggat ggaaaaatcc    2460
ggctgagacg gcctgggccg ctgccacgcg cgggcgttat tctccaccca cctgcggcct    2520
gaagatgcct gaggcccgga ctctcagacc cctattgccc tttggtgctg gaggcccagc    2580
```

```
ggcagcctga agcccaagag agtggagcct cgcgaaatga ggaacctggc acaaggtttg    2640
cttggaagca ggaacgacgg agtgtggcta cgtgccctat ttgccattaa cgctttcttg    2700
catggcagtg agagatgagg gcaagggagg tggcataatg ctcccggccg cttgggactc    2760
ggagagacgg catttaataa atcacacgcg gtatttgcga aacagtggtc gagattcgtc    2820
ttcccgggtt cattgcgtca tta                                           2843
```

```
        <210> 6701
        <211> 1656
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (31)...(1597)
        <223> similar to gi5757919 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6701
ccaagccgcg gtcccgggcc ggcacccagg atgggcgagg tggaggcccc gggccgcttg      60
tggctcgaga gccccctgg gggagcgccc cccatcttcc tgccctcgga cgggcaagcc      120
ctggtcctgg gcaggggacc cctgacccag gttacggacc ggaagtgctc cagaactcaa     180
gtggagctgg tcgcagatcc tgagacccgg acagtggcag tgaaacagct gggagttaac     240
ccctcaacta ccgggaccca ggagttgaag ccggggttgg agggctctct ggggggtgggg    300
gacacactgt atttggtcaa tggcctccac ccactgaccc tgcgctggga agagacccgc     360
acaccagaat cccagccaga tactccgcct ggcaccctc tggtgtccca agatgagaag      420
agagatgctg agctgccgaa gaagcgtatg cggaagtcaa accccggctg ggagaacttg     480
gagaagttgc tagtgttcac cgcagctggg gtgaaacccc agggcaaggt ggctggcttt     540
gatctggacg ggacgctcat caccacacgc tctgggaagg tctttcccac tggccccagt     600
gactggagga tcttgtaccc agagattccc cgtaagctcc gagagctgga agccgagggc     660
tacaagctgg tgatcttcac caaccagatg agcatcgggc gcgggaagct gccagccgag     720
gagttcaagg ccaaggtgga ggctgtggtg gagaagctgg gggtcccctt ccaggtgctg     780
gtggccacgc acgcaggctt gtaccggaag ccggtgacgg gcatgtggga ccatctgcag     840
gagcaggcca acgacggcac gcccatatcc atcggggaca gcatctttgt gggagacgca     900
gccggacgcc cggccaactg ggccccgggg cggaagaaga aagacttctc ctgcgccgat     960
cgcctgtttg ccctcaacct tggcctgccc ttcgccacgc ctgaggagtt ctttctcaag    1020
tggccagcag ccggcttcga gctcccagcc tttgatccga ggactgtctc ccgctcaggg    1080
cctctctgcc tccccgagtc cagggccctc ctgagcgcca gcccggaggt ggttgtcgca    1140
gtgggattcc ctggggccgg gaagtccacc tttctcaaga agcacctcgt gtcggccgga    1200
tatgtccacg tgaacaggga cacgctaggc tcctggcagc gctgtgtgac cacgtgtgag    1260
acagccctga agcaagggaa acgggtcgcc atcgacaaca caaacccag acgccgcgag     1320
ccgcgccagg tacgtcccag tgtgcccgag ccgcgggcgt ccctgccgc tgcttccttt     1380
ttcaccgcca ctctggagca ggcgcgccac aacaaccggt ttcgagagat gacggactcc    1440
tctcatatcc ccgtgtcaga catggtcatg tatggctaca ggaagcagtt cgaggcccca    1500
acgctggctg aaggcttctc tgccatcctg gagatcccgt tccggctatg ggtggagccg    1560
aggctggggc ggctgtactg ccagttctcg cgagggctga gccccgccca gctcccctcc    1620
acaataaacg ctgtttctcc ttgaaaaaaa aacaaa                             1656
```

5363

<210> 6702
<211> 1846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)...(1380)
<223> similar to gi4263743 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6702

```
acaggaagcc ccttccgccc tctgggcctc agtttcccca caccggggct ggtctgctcc      60
tagctctggg tgcaggacac acaggagtgg cacaggtcgg gctggggaga gccttctctc     120
ctttgtggtc caggatggcg cagaagtacc atgagtactc ccactacaag gagcaggatg     180
ggcaggggat gaagcagcgg cctccgcggg gctcccacgc gccctatctc ctggtcttcc     240
aagccatctt ctacagcttc ttccatctga gcttcgcctg cgcccagctg cccatgattt     300
atttcctgaa ccactacctg tatgacctga accacacgct gtacaatgtg cagagctgcg     360
gcaccaacag ccacgggatc ctcagcggct tcaacaagac ggttctgcgg acgctcccgc     420
ggagcggaaa cctcattgtg gtggagagcg tgctcatggc agtggccttc ctggccatgc     480
tgctggtgct gggtttgtgc ggagccgctt accggcccac ggaggagatc gatctgcgca     540
gcgtgggctg gggcaacatc ttccagctgc ccttcaagca cgtgcgtgac taccgcctgc     600
gccacctcgt gcctttcttt atctacagcg gcttcgaggt gctctttgcc tgcactggta     660
tcgccttggg ctatggcgtg tgctcggtgg ggctggagcg gctggcttac ctcctcgtgg     720
gcttacagcc tgggcgcctc agccgcctca ctcctggggc ctgctgggcc tgtggctgcc     780
acgccccgtg cccctggtgg ccggagcagg ggtgcacctg ctgctcacct tcatcctctt     840
tttcttgggc ccctgtgcct cgggtcctgc aacacagctg gatcctctat gtggcagctg     900
ccctttgggg tgtgggcagt gccctgaaca agactggact cagcacactc ctgggaatct     960
tgtacgaaga caaggagaga caggacttca tcttcaccat ctaccactgg tggcaggctg    1020
tggccatctt caccgtgtac ctgggctcga gcctgcacat gaaggctaag ctggaaggtg    1080
ctgctggtga cgctggtggc ggccgcggtc tcctacctgc ggatggagca gaagctgcgc    1140
cggggcgtgg ccccgcgcca gccccgcaat cccgcggccc cagcacaagg tgcgcggctt    1200
accgctactt gcaggcgcac aactcggacg agagcgaccc ggagggcgag catgcggacg    1260
ccgcgcagga ggaggcgccg cccgcagggc ccaggcctgg gccccgagcc cgctggactc    1320
ggccgccggc cgtgcccgta cgaacaggcg caggggggag accggcccgg aggagcagtg    1380
aaggggccgc ctggtccccg ggactcagcc tcccttcttc gccggcctca gtttaccacc    1440
gtctgagggt cggggggac cccctccga ggtcccgcgc ttgtcttcaa aggccccttg    1500
tctcccttc cccgacgttg gggacgcccc ttcccagagc ccaggtcacc ttccggggtt    1560
ccgcagcccc cttccaaggg cggagtggag ccttgggaac ccctcggcca agcacagggg    1620
ttcgaaaata cagctgaaac cccgcgggcc cttagcacgc gccccagcgc cggagcacgg    1680
tcagggtctt cttgcgaccc ggcccgctcc agatccccac agctctcggc cgcggacccg    1740
ggccgcgtgt gagcgcactt tgcacctcct atccccaggg tccgccgaga gccacgattt    1800
tttacagaaa atgagcaata aagagatttt gtactgtcaa aaaaaa                   1846
```


<210> 6703
<211> 3560
<212> DNA
<213> Homo sapiens

5364

<220>
<221> misc_feature
<222> (231)...(846)
<223> similar to gi4929687 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6703
```
tcacaggaag ccggaggtcg ctctgatccc gaatctccca caggcgtgaa cctgctctgc    60
tgtgtatctt tgcggggtgg cctgcgctga ggcctgccgc gcgcggtgag tccgcgcaga   120
cctgaccctg cgtctcgcag ctcggttgag gccgccgccg ccttctcggg atgccgcggc   180
cggggtccgc gcagcgctgg gcggccgtcg cgggccgttg ggggtgcagg ctgctcgcac   240
tgctgctact ggtgcctgga cccggcggcg cctctgagat caccttcgag cttcctgaca   300
acgccaagca gtgcttctac gaggacatcg ctcagggcac caagtgcacc ctggagttcc   360
aggtgattac tggtggtcac tatgatgtag attgtcgatt agaagatcct gatggtaaag   420
tgttatacaa agagatgaag aaacagtatg atagttttac cttcacagcc tccaaaaatg   480
ggacatacaa attttgcttc agcaatgaaa ttttctactt tcacacataa aactgtatat   540
tttgattttc aagttggaga agacccacct ttgtttccta gtgagaaccg agtcagtgct   600
cttacccaga tggaatctgc ctgtgtttca attcacgaag ctctgaagtc tgtcatcgat   660
tatcagactc atttccgttt aagagaagct caaggccgaa gccgagcaga ggatctaaat   720
acaagagtgg cctattggtc agtaggagaa gccctcattc ttctggtggt tagcataggg   780
caggtatttc ttttgaaaag ctttttctca gataaaagaa ccaccacaac tcgtgttgga   840
tcataactac gttttgagaa ttgatgcacc attgccactg taatattgct gtcctctaat   900
taattttagg tactgaagaa cttaatattg gcaacatttt taaatcctta ctcatacact   960
tgttgggagg gatgtacaat gcatattccc aaactgtgga aaggacacct tttttatt   1020
gtaaaggtgg aaaaactttg gaactcattt tgggctattc atgttaaata ttcaacacca  1080
atgatctact ctgttcgcag ttgtttatat ctactcttcg cacactaaac tttggtattt  1140
tgattccttt taaccattta agactacttt tcttataggt agttgatatt ttaaaaacct  1200
tagatttaat gtctacatgt gttagggagg aagaaaattg cctttaatt gttaataaga   1260
aaaccaaatg tgatgaactg tagcccaagc cctattctgc actgttcagt tttatggagg  1320
aaaaataaat ctaccatagg aatgttagtt aatattgata tatcatggta aaattgattt  1380
ctcactagct tagaaaatgt cagacttttg tttttggggt ttataattta aaccagctat  1440
gctatttttt cataaaggca tttgtagtac acagaaaaca gtagtttcag tagtgtaaaa  1500
gagtttatac aggccttaaa tatcagactt tgtaacaggt agaaatatta cagaataatt  1560
taagacacta caatgggggc aaatgaaata ggaaaatttt tagtgagtta cccgtactca  1620
ttacattttc agtgctttta caaggaaaaa aggtgatatg tttaattta acattttaat   1680
tggctagctc ttgcccttat atgactttaa tgtctgtgag tcattcccag cttaaattaa  1740
caattgttag tattagtctc acacataagt gccatacatt ttatcctcat ggatgtgatg  1800
cactgaaaag ttagttgctc tcctttttc ttttttttgt cgtgcatatt ttatttctgt   1860
agtttctggt tagctaccct aaagtgattt aaaaatttag aatgctttgt gtttcctatt  1920
tggtaatctt cattgacttt tctttagtta atgagtatta aatagtgcat attctgtaga  1980
ctatagggtt tacattgtgt tgcatcttat aacttgtata gattgagctg attgaaataa  2040
gattttgttc caagtattat ctgatagaat acaagatgat tcaaaattat atagatattt  2100
aaagcttttc tgctgttttt ttttttttta aatggcaacg gttttttgc cgggcctttt   2160
ttccttaccc aaaagggagg agtttgaac aagacaaaac tgtcatattg taaaaacttt   2220
ggtatgggat cccttaaaat actgattgga taccttcct agtcacttac caatactgac   2280
tagaagttaa ctcttaattc.taagctatct taaaatgcat atatatactt cttgcatgga  2340
agagcaaaac aaattcaagt tgtcatgcct gataatttca gatgccaccg tatagcaaag  2400
ggtgaacatg ttttcaaccc tttaactttt tacggtgttt gaagaccagc tactccttaa  2460
tatttatcaa tggattaaga agtttaagat tttgcagatt tatcaatttg ggtttttgta  2520
ctgaagttgt cttgcggctt tgcaagtgtc cctttatatt taaatttgaa agttgtaagc  2580
actgatgtta atgtgattga tcagcatggg catatgtaaa atgtcctttt ctggttgcct  2640
ctctatgcta ttgtgttcag atacttacac cataattaaa cagtaagtta tagacttgct  2700
gagtttggca tagatagtgc actcatttaa tctgtgcctc tcaaaacttc agaatattag  2760
catattacca caaataattt ttggtgaaac tattgagata ttaaaatttt tgaaatcact  2820
```

5365

```
actgttacct gttatagaaa atagtgttgg cttagtctag tctctgtgta actggttaca    2880
ttttgatggt tgtctatact caactggata tgtgtatgta aattagaaaa tacataccta    2940
tccagacata aatgctaagt aacatttttt tcttcctcca actacataat ttgtagctca    3000
tcattttcc ttaatccttt cctaacttgt tgcagcagtt tgaatttccc agatatttat    3060
gtttgaacat aatggctcag aatacatatt tgaacatcat agttgtatat atttttaaag    3120
tagaataaat aatggaaagc aacttgatat acaagtttat actaaaattt caactgtgtg    3180
aagatacatt ttaaggcatt actttgctaa taatctacac attctttttt ctattaaata    3240
aacaaatggt ttgtggttca cagctttcat ccaagcttgg tgataatcaa ttttgaaaat    3300
acagtggact gaaaagcaaa tttattcttt cgaagatttc atttaaatct ctgtactatg    3360
cattttgtt tcagtttgta aatgtgtaac atttatagtt aaataggaca aagcaggccc    3420
tatgactatt gttttcaaaa aattaatata taaataattc agagggtttt ttcatttact    3480
tttgaaaaga aatttcttta acaggattgc acctatcaat ttcttgtaga ataaaaaaaa    3540
atctttcaac aaaaaaaaaa                                                  3560
```

<210> 6704
<211> 1461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (523)...(1237)
<223> similar to gi4102184 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6704
```
ctcaacaggg cgtgtttttg tgtcactggt gtccctgagc tggaggtgat ctgtctgtcg      60
gggctgcagc aggcggaatg gccccgtctg ggattgagcc acctgggagc tgtcggcggg     120
ggttggggcg gccttcccac ctccacctgg gtttctcttc acactcagga ggtagatctg     180
gcctcggaag tggccttaga ggtggtgcgg acagcagagc ctggcgtgtg gttggaggct     240
caggccccgg tggccctggt ggctcagcct gagcccctgc cggccacagc tggtgtgaag     300
agggagagcg tgggcatgga ggtggcagtg ctgactgatg acccgctgcc cgttgtggac     360
cagcagcagg tgctggcccg tctgcagctg ttggagcagc aggttgtggg tggagagcag     420
gccaagaaca aggacctgaa ggagaagcac aagcggcgca agcgctacgc agacgagcgc     480
aggaagcagc tggtggctgc cctgcagaac tcggatgagg acagcgggga ctgggtgctg     540
cttaacgtct acgactccat ccaggaggaa gtgcgggcca agagcaagct gctggagaag     600
atgcagagga agcttcgggc agcagaggtg gagatcaaag atctgcagtc cgagtttcag     660
ctggagaaga tcgattactt ggccaccatc cgccggcagg agcgtgactc catgctcttg     720
cagcagctcc tggagcaggt gcagcccctg attcgcaggg actgtaacta cagcaacctg     780
gagaagattc tgcgtgagtc ctgctgggac gaagataacg gcttctggaa gatcccacat     840
cccgtcatca caaaaaccag cctcccagta gcagtttcaa ctgggccaca gaacaaacca     900
gcccgcaaaa cctctgcagc agacaatggc gagccgaaca tggaggagga ccgctacagg     960
ctcatgctca gtcggagcaa cagtgaaaac attgccagca actacttccg atctaagcgg    1020
gccagccaga tcctcagcac agacgccagg aagagcctca cacatcacaa ctcgccacca    1080
ggcctcagct gcccactcag caacaactct gccatccac ccacccaggc ccctgaaatg    1140
ccccagcccc ggcccttccg cctcgagtcc ctcgacatcc ctttcaccaa ggccaagcgt    1200
aagaaaagca aaagcaactt tggcagtgag cctctgtgag cacagctgct tgccattgcc    1260
tgccttatag gactgtagag actgccaggc cctccaggg cagccccaac caggtctcct    1320
cccacctgcc acacagcgct ccggggcctg agggctccct cagccctggg aagatacatt    1380
cccttccctg ttccccagag agcccacctc tgccctgggc aggagcccct cggaggctgt    1440
```

5366

<210> 6705
<211> 1476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1177)...(389)
<223> similar to gi1488608 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6705
```
ggtcgacttt gtgttttttt gttttgttgt tgttttttct ctgtccaacc atgagacatg    60
aggggcttct tggtgtcatt tccactcccc ttgccaatat ttatttggaa acatttcaaa   120
ctacagaaaa gttatgcaaa ttacatcagg aacaccacac atcccctgtg cggagatctg   180
tgctttatgt ctttgaaagt aagttgtcga gatcacagca ctccaccect ccacaccgaa   240
gcccgcagct tctcaggaaa gggcagtctt gtgtgatcag tgcatatcat cacacacagg   300
atgtctgaca ctgggcacca cgctgccatc tcagagtcca tttcaatgct gggggtcatc   360
ggttttcagc aggttcttcc ctgggttcaa cgcgtcttcc cgccagaggg atggaatctt   420
gggtgagtgt tgaaatgcgt cagaaacaaa aacgcaaagt ggaactggag cacgtcacag   480
accttggacc agaagtggcc tgtgaggcac tggaagagac gccaccgtgc gagctgatgg   540
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accacgtgag cacccagtgc gacctcgaag ccctggggat gcagcagagc gaggccataa   720
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gtagaggcac caggccacgg gccatgcaaa gatgggcagt gtgagccact ggtccagcac   840
cgcggcacgg cgccactgcg tccacaggcg cagccactgc acggggccat agagcagggc   900
catggctgcg aacacgtcct tcaggtagcg gggacccagc cccatcgcgc cgccctgtg    960
cagccacgac agccccagca gcgtgtaggc catgttcacg agtgagttga acggcatggc  1020
caggaaggca gggaggccgg ccacgggcgc ctcggcgtag tgctcatagc ccacttgcac  1080
ggaaacactg tcgaaaatgc ccgtgaacac agccacggca cagaggccac cggccacggc  1140
cacgtgcacg aaggcctgcc cccactctgg attcatctgg aaccggcggc gtgacctggg  1200
gcagggagct tcagagagca gccttcaata cgcagcctct gcagaacact ctgggcctcc  1260
cggctgagcc agcagaaaga agccccgtga tttcgtgatt tccgaggcag atgctgcgac  1320
cttgccccga aggaaggcag gagtcctgct gattggctgg cgccagcgga ggaacgttct  1380
gccttttttca gtattggcgc gaaaaggcca gctatcacca tacgggtatt tcgcctcact  1440
tcgcctcgct gggggaaatt caaatctccg aaaagg                            1476
```


<210> 6706
<211> 2073
<212> DNA
<213> Homo sapiens

<220>

<400> 6706

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ccgacgatga tgaaagtgtg cacggccggc tgtcctccga ttgaggggcc ttgtcaaggc   180
ctcagaggca gcgaggtcac agcctggtgg agggtctggg tgtgcgctgt gtccatctgc   240
acctcacaga caccagtcat gggggatga aaccgggcca agaacacatg tgtgcacagg    300
cttgtgtgtg cctgcatgtg tgggatgcgt gtaggctgtg gcggggtgg agatgaggga    360
taggacagga aaatggccca tccaacccca catccctggc cgggcgtgtc caggtccctt   420
tggggcgagg gtttggctgc cccagacgtg acagggactt ggctctgagg gtcaggacct   480
ggctgggaac acccattgaa gagggaacag aaaccaggcc ctgggacgct agagacccca   540
agagctacct ggctgggtct atggtcaggg ctgtagtgga ggaaggtgtc aggatggcca   600
ttgtctcaac tcctgtgggc ggcacagccc caggctgggc ctctgggagg agggtgggat   660
ggatgggaga tcagagcccc tggcgcctgg acaagggtt ggcctggatg tggggcccca    720
ggtgggcagg gcctgggagc cgccacagta tgtgacaaca gaccccaccc tggacccccg   780
tgctgggggc tgggtcccac cgctctcctc tccacgtctc tcttggcgat gcccagcttg   840
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atttctggtg cacgtctaga ggggcccggg cagaggccac ccacggtccc tgaagtaggg   960
cctcagctcc tccaggctga gcggagggaa gtaggctccg atcctcttcc gcacccacca  1020
cttgccctcg gcggcgtgcc tgcccccagg acggctgaac ttgtacctgt agtgctctcc  1080
tcggacccac ctgggcgggg gcctgcccgc gaaggggttg tgtgccagca gggacaaggc  1140
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ggtctggctt gcacttgaac tcgtagtcct cccacatggc atcggggcg ctggcgttgg   1260
agctggctgt gccctgcagg atcacctccg cccgctcctt ggtgatgctt ccgaaggccc  1320
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gcaagttgag gaccacgggc acgctgagcc aggccagcag gacgcccagc gagacgttgg  1440
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gcatctgcag aactcggtcc ttcaggctgc ctggcccaga ggggaacaag aatcccaggg  1560
tggcgtcatc aaagcaggcc aggctgggca ccatagtcag ccagttcagg aagctgaggt  1620
tcccgctgac gatgaggacg gcctggaaca ggatctgcag cacccgtgg atgatgcacg   1680
cccgccggcc gaggaagagg aagaagggca ccaggagctc gatgaagtgg ttgctgagcg  1740
tctcgaagcg atggaaccac cagggtgagt ggtgcaggta gtacgccaca ggattgggca  1800
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ggatcttgat caggcctgct ccaagcatga tcctgaagat cagccaccgg aagccccaca  1920
ggacaatccg ggatgtgggg gtatgctggg gcagccttga cagcgtccac agagggcaca  1980
ggaagatccc caggaacccc gtctccagaa gctgggactc ccatccgaaa gagtaccaga  2040
catggcccac attaaccagg gacatgtaga ggg                               2073
```

<210> 6707
<211> 3070
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (397)...(783)

<400> 6707

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gcgcagagct gacagggtgt ctggtgcgca gcgcccggcc cgtgcgcctc tgtcagacct     120
gctaccccct cttccaacag gtcgtcagca agatggacaa catcagccga gccgcgggga     180
atacttcaga gagtcagagt tgtgccagaa gtctcttaat ggcagataga atgcaaatag     240
ttgtgattct ctcagaattt tttaatacca catggcagga ggcaaattgt gcaaattgtt     300
taacaaacaa cagtgaagaa ttatcaaaca gcacagtata tttccttaat ctatttaatc     360
acaccctgac ctgctttgaa cataaccttc aggggaatgc acatagtctt ttacagacaa     420
aaaaattatt cagaagtatg caaaaaactg ccgtgaagca tacaaaactc tgagtagtct     480
gtacagtgaa atgcaaaaaa tgaatgaact tgagaataag gctgaacctg aacacattt     540
atgcattgat gtggaagatg caatgaacat cactcgaaaa ctatggagtc gaactttcaa     600
ctgttcagtc ccttgcagtg acacagtgcc tgtaattgct gtttctgtgt tcattctctt     660
tctacctgtt gtcttctacc ttagtagctt tcttcactca gagcaaaaga aacgcaaact     720
cattctgccc aaacgtctca agtccagtac cagttttgca aatattcagg aaaattcaaa     780
ctgagaccta caaaatggag aattgacata tcacgtgaat gaatggtgga agacacaact     840
tggtttcaga aagaagataa actgtgattt gacaagtcaa gctcttaaga aatacaagga     900
cttcagatcc attttttaaat aagaattttc gatttttctt tccttttcca cttctttcta     960
acagatttgg atatttttaa tttccaggca tagcaatgtt atctatttta atgtgtattt    1020
gtcacaataa cagaacatgc aagaacaatc attattttat tttataggca tttgattact    1080
attctagact tctggtatct tcttactaac ataaatatct caagtagaaa agttttttgaa   1140
aactaacatt taaaaattaa tcagttacag taaagacttt gaaaagaaa tgtacttgtt     1200
aggaagtagc ttaattaccc cccattgcag tattattgtt atatatatag ttaatatgtt    1260
gtacatcaca ataatatata attcagtctc tagtttccct agagtcattt ttgaaaccac    1320
tgattgcaaa cctccctgac aatttttaaa agtagtaagc cacattacat ttatctttgt    1380
aaaaagattt atggtaactg gtttcttact tgacttttat aaatagtatt ttacatctta    1440
tttttgcctt tatttcataa gtaatttaaa aatcactgga ttgctttatt atattcaggg    1500
caatatggat tatttttata ccaaggattt gcatcgtgaa ttacattaag ttatttggca    1560
atttataatt tattactact ttaaatcaaa tgtagcatta tcacactgta tttaaattgt    1620
catttttttaa aggaatattt tcttcttaag atatatagag gattttggag aagagagaca   1680
ggaggggtaa aaccagctta aggttcagcg agcagaaagg gacctgagag gatgctcact    1740
gtaagactgt tggacagtgg tgtgtattga ggggatgaat cggaacgata gtctcatgca    1800
gaaaatagtg agattaagat catccttatt gtttctaaat tatttcaatc agatgaaagt    1860
gatacgattg aaatgaaatc acatagttcg tgctcagaaa ttctattttg gtatgtttgt    1920
attagccttt agaaaaaaca ctccgtttca gaattgttca cagtttttatt tcttaggttt   1980
ttagagttca ggatttcatt tattaatttc ttcttgcttt tttggtggaa ataggctttg    2040
ttgtaaacat taagaatata aaatctcctc tatatagaaa caagaatttt gttaaaaaga    2100
gaatttgaat cccttcctat actataaaat gctctatagg gagacaaagt gtttcttttt    2160
tcttttatgt ttactgttta tgtggagtga aatataaggc tcttggatgt ataacatact    2220
caaaagctgt tacactttct ctgatctgct gtgatccact gaaaatgtgc tggggtttgt    2280
tctgctgtca ctgtttatgc tgctggaact tagcactgtc ttgatttgaa gcatatgatt    2340
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ggatttttaa atacattttt aaaatttcag atgtaattta acatcacatt tgttttttcag    2820
gtattgaggt ttaagatgcc tactttttat gaggtaccat cagctgggac acagtgtctc    2880
atacctgtat ttgcagcact ttgggaggct gaagcagatc gctggagctt atgagttcga    2940
gaccagcctg gacaacatag tgaaacactg tctctgcaaa aaatacaaaa attagctggg    3000
```
```
                                 5369
```

```
tatggtggta agtgcctgta gtcctagcta cttgggaggc tgagatggga ggatgtcttg      3060
agcccgggag                                                              3070




      <210> 6708
      <211> 2321
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (181)...(1753)
      <223> similar to gi2463632 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




      <400> 6708
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aacaacttaa gaaatggggt aagtagttct tatctgttgt ttgcttaaga gtatgagaat       120
catcgatcct catgctattg ctgatctgaa ttgcttttaa ctttttcttt cagattaaga       180
atgacccaaa ataaattaaa gctttgttcc aaagccaatg tgtatactga agtgcctgat       240
ggaggatggg gctgggcggt agctgtttca tttttcttcg ttgaagtctt cacctacggc       300
atcatcaaga catttggtgt cttctttaat gacttaatgg acagttttaa tgaatccaat       360
agcaggatct catggataat ctcaatctgt gtgtttgtct aacattttc agctcccctc        420
gccacagtcc tgagcaatcg tttcggacac cgtctggtag tgatgttggg ggggctactt       480
gtcagcaccg ggatggtggc cgcctccttc tcacaagagg tttctcatat gtacgtcgcc       540
atcggcatca tctctggtct gggatactgc tttagttttc tcccaactgt aaccatccta       600
tcacaatatt ttggcaaaag acgttccata gtcactgcag ttgcttccac aggagaatgt       660
ttcgctgtgt ttgctttcgc accagcaatc atggctctga aggagcgcat tggctggaga       720
tacagcctcc tcttcgtggg cctactacag ttaaacattg tcatcttcgg agcactgctc       780
agacccatct ttatcagagg accagcgtca ccgaaaatag tcatccagga aaatcggaaa       840
gaagcgcagt atatgcttga aaatgagaaa acacgaacct caatagactc cattgactca       900
ggagtagaac taactacctc acctaaaaat gtgcctactc acactaacct ggaactggag       960
ccgaaggccg acatgcagca ggtcctggtg aagaccagcc ccaggccaag cgaaaagaaa      1020
gccccgctat tagacttctc cattttgaaa gagaaaagtt ttatttgtta tgcattattt      1080
ggtctctttg caacactggg attctttgca ccttccttgt acatcattcc tctgggcatt      1140
agtctgggca ttgaccagga ccgcgctgct tttttattat ctacgatggc cattgcagaa      1200
gttttcggaa ggatcggagc tggttttgtc ctcaacaggg agcccattcg taagatttac      1260
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gaattctggg gtctaatgtc atgcagcata ttttttgggt ttatggttgg aacaatagga      1380
gggactcaca ttccactgct tgctgaggat gatgtcgtgg gcattgcaga agatgtcttc      1440
tgcagctggg gtctacatct tcattcagag catagcagga ctggctggac cgcccccttgc      1500
aggtttgttg gtggaccaaa gtaagatcta cagcagggcc ttctactcct gcgcagctgg      1560
catggccctg gctgctgtgt gcctcgccct ggtgagaccg tgtaagatgg gactgtgcca      1620
gcatcatcac tcaggtgaaa caaaggtagt gagccatcgt gggaagactt tacaggacat      1680
acctgaagac tttctggaaa tggatcttgc aaaaaatgag cacagagttc acgtgcaaat      1740
ggagccggta tgacacactt tcttacaaca acagccactg tgttggctgg agaggatgg       1800
ggtgggccca acggggacac aaggaggcag aggagctaac ccctctactc cactttcaaa      1860
actacatttt aaagggaatg tgtatgtgaa gagcactacc aaacatcgct tttgttttgt      1920
tttgttttgt tttaagcttt ttttttttg cttgttttta aagccaaaac aaaaaacaac       1980
caagcactct tccatatata aatctggctg tattcagtag caatacaaga gatatgtaga      2040
aagactcttt ggttcacatt ccgatattaa aatagtgaca tgaactggca aagtggtttt      2100
```

                                   5370

```
aaaagctttc acgtgggata aatgattttc ttttttttctt ttctttcttc ctatggtctt    2160
gtctgaataa actactctcc tgaataaaac aacatccaac ccaggtcatt gaaatgaaat    2220
tggccagtca aaaaaaaaaa agggggggc cctttaaaaa aaaaaattt taaccccgg        2280
ggggggaaa gaaatttttt tttttgggg ccccaaaaa t                           2321
```

<210> 6709
<211> 3018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)...(2505)
<223> similar to gi5689736 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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<400> 6709
cagatctcca gtggcagaga gttgagagtg atccaggaaa gtgaagcagg agatgcggga     60
ctgccccggg tggaagtgat cctcgactgc tctgacaggc agaagacaga agggtgcagg    120
cttcaggcag gaaaggagtg tgtggattct ccagtggaag gagggcagtc agaagcacct    180
ccttctctgg tatcctttgc cgtctcatca gaaggcacag agcagggaga agatccacgc    240
tcggaaaaag atcacagcag acctcacaag caccgagcgc ggcatgcacg gctcaggagg    300
agtgaaagcc tgtcagaaaa acaagtgaag gaagcaaaat ctaaatgcaa aagcattgcc    360
cttcttctaa cggatgctcc caaccccaac tccagggggg tgttgatgtt taagaagcga    420
cgtcggaggg ccaggaaata caccctagtt agctacggta ctggcgagct tgagcgagag    480
gcggacgagg aggaagaagg tgacaaggag gatacatgtg aagtagcatt tcttggtgca    540
agcgaatcag aggtggatga agagttattg tctgacgttg acgacaacac acaagttgtg    600
aactttgact gggattctgg actggtggac attgaaaaga aactgaacag aggggacaag    660
atggagatgt taccagacac cacaggcaag ggagccctca tgtttgccaa gaggaggggag    720
agaatggatc agatcacagc ccaaaaagaa gaggacaagg taggtggaac gccaagcaga    780
gaacaagatg ctgcccagac cgatggcctg agaaccacga cttcttacca aagaaaggag    840
gaagagtcgg taagaacgca gagctctgtg agcaaaagct acatcgaggt gagtcatggt    900
cttggccatg ttccccaaca gaatggcttc agtggggcat ctgagacagc aaacatccag    960
aggatggtcc ccatgaatag aacggccaaa cccttcccag ggtctgtgaa tcagccagct   1020
accccttct cgccaacccg aaacatgacg agtcccattg ctgactttcc tgcacctcca   1080
ccttactctg cagtcactcc tccccctgac gccttctcca gaggggtttc aagtccgatt   1140
gctggcccag cacagcccc tccatggccc cagcctgccc cgtggtccca gccagccttt   1200
tacgattcgt ctgagcgaat agcttcccga gatgagagga tctcagtgcc agcaaaaaga   1260
acaggaatat tgcaggaggc caaaaggaga agcacgacaa aacccatgtt tactttaaaa   1320
gagcccaaag taagcccaaa tcctgaactc ttgtcactcc ttcaaaattc agaaggcaaa   1380
cggggcactg gagctggagg tgattccgga ccggaagaag actacctcag cttggggggca   1440
gaggcttgta atttcatgca aagctcctct gccaaacaaa agaccccctc ctcctgttgc   1500
tccaaaacct gcaagtcaag tcctcatcct cccaaccagt aactccagtt tccccagtct   1560
ggtctccagg agtggctccc acccaacctc ctgccttccc cacatccaac ccatcaaagg   1620
gcaccgttgt ctcctccatc aaaatagccc agccttctta ccctcctgcc cggcctgcaa   1680
gtactttgaa cgtggctggt cccttcaaag gaccacaagc agcagtagcc agtcagaatt   1740
acacacccaa accaacagtt tccacaccaa cagtcaatgc tgttcagcct ggtgcagtgg   1800
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agtcgagaat ggagaagtat gtggtcgatt cagacacggt gcaggcccac gctgctcgag   1920
ctcagtctcc cactccatct ctcccggcca gttggaagta ctcctccaat gtccgagcac   1980
```

```
ctcctcctgt ggcctataat cctatccact cgccgtctta cccactggct gctctcaagt      2040
ctcagccatc agctgcacag ccctccaaaa tgggcaagaa aaagggaaag aaaccccctca      2100
atgcattaga tgtcatgaag caccaaccgt atcagctcaa tgcatccttg tttactttcc      2160
aacctccaga tgcaaaggat ggcctccccc agaagtcatc agtcaaggtc aattcagccc      2220
tggccatgaa gcaagctctt cctccccggc cagtgaatgc tgcctcacct acgaatgtgc      2280
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cctcctcacc agtcagtgca tccccagtgc ctgtgggcat tcccacctcg ccaaagcaag      2400
aatcagcctc atcatcttat tttgtggcac caaggccaaa gttctcagcc aagaaaagtg      2460
gtgtcacaat tcaggtgtgg aaaccatctg ttgtggaaga gtaatcttgt agctgaagct      2520
gagtgtccac tttgcttgaa atgaattgtt tgcagtgttt cttgagtccc tgagaatgcc      2580
tagcaaagtc ctcaacttac ttaatttcag atatgtcacc tcctaatctg ggtccaagga      2640
gtataatatt tttaatgagt caaaaatcca actcagattg acctaaaata tatttatctt      2700
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aagcaggaga cttaggattt gtgctgtagc cacaagaaag acagtgatca gtgatatcaa      2820
acatcaggaa tcagcctta tgtaacataa cagctgtcct tctatggtga aaggttcaaa      2880
tgtagtgaag gtataaccta tattgactga gatttccctt ttaggtagtg ccttatctct      2940
attactagtg ttaaaggaat aaggaatcta tgaaggacag ggagcagctc tggtctgtca      3000
atctcagcca cctgtttg                                                    3018
```

<210> 6710
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (960)...(331)
<223> similar to gi4884206 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6710
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agatgaaaaa gtgactcctt ggtttcttca cattcccctc caagagccca gtgagccatc       180
agctcctggc cagcaacaca cctgatacaa aatgggagaa gtgtataaat tattatgttg       240
ataagcaaga taagtgccaa agggtagata agagtgaaag cattgggaag cctggcagag       300
tgcagtcagc aggtcagttc ctggcggttc attgagcagc ttggcccaaa gatgtaagtg       360
aagtccctcc tggtggaggg atgagagcag ctccagttac tcggccttca tgacacagga       420
agttgaaggt ggcacaggca ttgggcgtgt cctgcacttc cacagcaatg ccccgctgcc       480
tcatggcttg aagcacctgg gactgcagcc tctcggtccg gtctccagtc cccaccacca       540
cgatctctat ccggggctcc agcaaccaga agagggaaaa gctgtcttcg gtgatgtcct       600
ggtgggatcc cacgttccac tgcaccaccg agtgcgggag cagagcgcag gggccgagca       660
cgcggtttcc gtttatcatg aagccgcggc tgttgtagct gtcgatgtac attgcctgag       720
cggcctcgcg ttgcagcaga gagatgcgcg tccgctgata cagctcgtca tccgccggcg       780
agagccgatg ccctcgccgc ggggcccagg gaagctcaac gggcggacag cgcagcgagg       840
gtcgcgctcg gtacaagcta cgtagcgcga gagcggtggc catggctgac caacgcgcgg       900
cgaagtcgtc accggcgccg ttagtccccg ggttgggagg ccctgcgga gcctgaccca       960
gcgtggctgc agcgcccct gcgtcccgga gggcaccgca cagctcgacc ggcccagcag      1020
gcgagtgtcc tcagtcttag gaggccgagt tccccgacct ccggcgcagc tccagtgtca      1080
gcacctgccg ccctccccgc cccgggccct tgcccatagt cccggggag tggaacacct      1140
```

```
ggcagcgtgg ccacccctcag ggcgttgcct gggccgcagc cgcggcctgg cccccgggct  1200
ctcagctatt aagccgcgct cccgggggcgg ggcgaccgcc cacctggtcg cgtcccgaac  1260
acctggccag gcggtgggtg ccagacttct agcccctaat tccagccttt ggggcttcgg  1320
gcaccgtggg cggggcagcc ggctcaagtt tctccggcta gacgcggaag ca          1372
```

```
<210> 6711
<211> 1465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1297)...(463)
<223> similar to gi3757661 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 6711
tttttttttt ttgtttccaa ttgcagattt atttccacac acacaaaaaa aatctatgtt   60
gaagttacag gattgccatg aatgccacac acctttcaga ctaagcagaa agcccacaag  120
aaaaaaaaaa aaagaatgca ctcagctgcc cactgtcccc cccaccctgg tggactgggg  180
aaggacaggc agagccatct aacaggggag ctgagtcttt gggaggatag gaaaagccca  240
ggggtcaagg gaaaacaaca cagacactac acagggctt tcagtgagac agggatagat   300
cacgccggtg gaaggaaggc cctagcgtcc ctcttcttgc ccaagaatag cacaccattt  360
gtgagtttgc ccactgtgtt cccaacatca atgcacagat acaattctac cagcaagatc  420
acagaaacat agtaagagca aaaggcaaag cagtctggga ttatgggttg attttcagcc  480
caagacacaa agccagctca gacttctgaa ttttttccatc cttgttcacg tcgcagtgac  540
gcaggagaat ctcgcggaac ttatcaaggt ccaccccgct gatgctgggc tggacaagct  600
ccatcatgtc tttgacaaac ccatccactt ctggggcctt ccagggctcc tgtttttacta  660
acatcatagt aggcaaagat tttctcaaag tcccctttc ttttctcagt agaacaagca  720
tccatttttaa attggagaag gaagttttcc tgaagagcca gaatccttgc taagtcattt  780
agatccaacc gaccatcttt atttctgtca aaaatcttca tcatggtgcc agtgtattct  840
tccagtttag cctcagaaat ggccttttg tggtgaagaa agaggtctcg gaggaagttg  900
cggagctcag cagctgatat aaagccactg ctgtcagcgt catatttgcg ccaaatctgc  960
ataaactcca cgctgctgtc cagtgggttt tcccggcgaa agagcagaag aaagttttca 1020
tcctcagata agaacatacc agcaagctct ttcatccgaa tgcgaccatc tttagaggca 1080
tcttgggtag tcataaactg ctgtttcacc ttgtgcaaat ttgctttcat gaccgtgtca 1140
tcagtaccca gtttcatcaa catgtggaga aagaaagcat cgagttcctt ctcttctatg 1200
taacctttt catccgcatc aaagcgctgc cagacctgcc agaagccagc ggcgtccaag 1260
cgccccagag tcggttcccg ggagctgtcc atggtgttga cgacgaagac caggcaccgg 1320
cgcggaagga cctagacaac tttgggaagg actccttcac cgtatttctt gacttgctct 1380
cctgcttctt tcgctatctg attagctttg agtaactgtt gctggggagg acgcgagcgc 1440
tgctggccgt ggcgtcgctg agccg                                        1465
```

```
<210> 6712
<211> 1892
<212> DNA
```

5373

```
<400> 6712
ggagatcctc tcatttctta agcttggcac gaggggtgcg tcctcactcg gggggcttgg      60
caatgcctttt accaaatgcc actcgacctg cctccgggag gagcgaggat ccgagctgaa     120
gctcgctttg gaacatggtc atcgatctga gagccagaga ggctgaagct ggattcgtga     180
aggtccctca tgcccccatg ccgggtgacg ggccgggtag gagtgtctgc gagtggggtt     240
cccatctctt ttttcccagg gtgcacgaca acagcgacat cccccaggta gggagtgcgg     300
tccactcctc taacctttaa agtcttctct ctctggacca gcttcttgta gacagtgtct     360
gggaaggacc tcaggggaca gaacttgccg gtgccctcgg cgcacatgaa gacgccgttc     420
tcatacacga cgcgcccccg gctgatggtg accagtggca cgccgtggca gcgcatgttc     480
tcatacaggt tgaagtctcc tccctggacc tgcgtgctgg ctgagatggt ctttgtggct     540
tctgggtccc acaccaccac atcagcatcg gctccgggaa taatgcggcc cttgcgggga     600
tacaggttca gaagcttagc tgcgttggaa ctggtaacgg ccacaaaacg gttctcatcc     660
atctttcctc caaccactcc tctctcccag atgacgctca tgcggtcctg cacgccactc     720
actccatgtg ggatcttggt gaagtcttcc ttgcccatag ctttctgctt tgtggtgaaa     780
ggccggtgat ctgatgccac gatgttcaga gtgtcattgg ccagcaggct catgaggtag     840
gttgaggtgt tggtgtccag tctcagggga ggcaccgtga cataggcagc cgcgtgggac     900
cagtcctggt ggtagtagtg taagcctgtc agcgtggcat gtgcagtggt ggtctccgcc     960
agcacaacct tcccttgcat cttagcagct gcgataacgt caccagccga gatactggac    1020
acgttgacca ggtagattgg acagtgagtc ctgtttgcaa tggtgataac acgatgagtg    1080
gcttcagctt ccagctcctc tggacggctg atctcgattc cttctgggcc tgtgatcccc    1140
aaatccagtg cctccttagc accctcggcc acaagctccc cattttcagc atggacgcgg    1200
gcgattgccc caatgtcctt gcaagcgtgc aacacttggt acagctcact gtctcgaagc    1260
atgtacaggt ccttgtaggt catgaacatc tggaacgagt tgacacccttt ctccctcacc    1320
agtgtctcca tttctgcttt caccttgggt gcccaccagg tgatccccac gtggagggcg    1380
taatcacagc agaccttggg gtcggccaag acctcggcac ttctcataag cgtccacaag    1440
ggaggtctcc ttgtcgggca ggacgtggcc gatgatcatg gtggtgcctc cgacgagtgc    1500
tgccttggtc ccatggtaga agtcgtccac gcacgtggca ttcatgaagg tctggtggaa    1560
gtgggtgctg gtgtcgatgc caccagggat caccagtttt cctgtggcat caatcacctt    1620
ggccccgcca gggatcatga gctcgcggcc cacctgctgg atgatgccat tctcgatgta    1680
gacgtcagcc tcgtgggtgc agtcatcgtt caccaccttg cctcccttga tgaggatcct    1740
cacgctggct gagttggcaa gcatgttccc ggctctccgc ccttttgtgc gcctcacgca    1800
gaaacagaag ggggagagga ggatgtccta gcccgggagg ggtaagccca ccgacccacc    1860
tgccatcacg taatcgtcga ccgggactcg ga                                  1892
```

<400> 6713

```
actatagggc aaaagtgtgt tttgttgttt tgtgtttttt tgagctcggt attatatatt    60
tttttctcat taaaggttta aaaccaaaag cgggtttctc tttgcagcaa atatacatta   120
aaatagagtc tctgtacagc caagggctct ggggcctgct atagccccaa tgtccctgcg   180
catcccttgc caaacccaaa aaataaatat agtgttattg ctctgcaggg cataagaggc   240
agtgctctcc taccccctga ggaggctcgt ttggggagct gattgggaa gccctggcca   300
ccccaagggg tccagggggc tggagtcctg atttggaggt attgcttcaa ggggggacac   360
taaatgccca atgcaaatga tgagagggcg gagcgaaggg gggcatgggg ccttttgctc   420
tccaagtccc actctgcttt gaagagggggg taggatttaa gcagcagcaa aagcatcacc   480
cacttgggag actctggcct ccatcccctt ccctccctga gataggtttc tgcctcccac   540
gcatcccgtg cagccccta tggcttccgc aaggccccct acactctggg ggcaccgtta   600
tggcttgcaa ggggcagcac tgtgccccag aaccctggac acacgttccc aagcttctga   660
acaacccta ggaggggggag gagagggcgt ggggcctgtt cccagggct gatggcattg   720
cccctggcc tgccagcagg ctgtggcact gcccagaccc cagctccgcc ccagcccttg   780
gggctgaccc catgctaggc aggtcctgcc agaacccca ccagtcccac cccttgcctc   840
agtccatcat ggcctcgagc atctccaaga acagcttgtg catgggcacc ttgccctcca   900
gcttcacccc atagaaatgg gccagcactt tgcccgctgt ctggcggagg agcggtagcg   960
tgagcagcag cctgcccgcc cgccgccgct cagcacccc tccggggcca gcccggccgg  1020
cttcatactc cagcagggcc tcgtgcagga gcttctcgca gctgctccac agcctcggct  1080
catcttcgat gtgcacagag tctgaattgg caagggccaa ggcctttagt agaacatact  1140
cctctcgctc cagccgcagg gcctgcagcc gccgcactag ttgcagcagg gcagctcccc  1200
aattcccca gtccagctgg ccgtgcccc tcttcatcca ggactaagta ctcagcgaag  1260
gccagctcat cctgcagcgt cagggagcgc tgagccacac ccagcaccag cacctccatc  1320
cacacgctct gcagtactga catctggtca gacagcgaca gcgatgagaa gcctgggatg  1380
ctcttggccc agctgatggt gaccacaatc tctcggtcaa agaggtcaca gagggtagcc  1440
acggctggga ggtgcccatc agggcctgcg gggtcaggca tggcatagag cttctcaggc  1500
tcaaccacca gcagatgaga caccagtgca ttcactgggg ctgctgtctt ccggggggcct  1560
ccagcgactg ccaggggccc agcagggaag gggcccggga agggcagtgg gtccacctcc  1620
ggccgccgct tgtacttctg ccgcccaccc cggacgcggt ccaggcgcac tccctccttg  1680
agcatgccca cccgcaggca cttggtgaag cggcaggcct ggcaggcctt gcgtctccgc  1740
ttggtgatct cacactcgtt ggaggccgga cagctgtact cgatgctccc ctggatggtc  1800
ctcttgaaga aggctttgca ggcctcacag gatgccacac catagtggta gccggaggcc  1860
acgtccccac agaccaggca gaggcgcttg ggcagggagc tgagcaccag cttcccaccg  1920
ccctgctcgc caggcccagc cccctcccca tcctcctctt ccttgtggcc tgggaggcag  1980
cgagtgggag ctgcgaccag gggccagggc cacaggaggc tcggtctctg tctccgagga  2040
acccttfgga ctgtcagggc tggccggctc tgccttgatg tagagaggct caatgcccac  2100
cacctggctg gacatggcgc tggtcacctg gggctccggc agcgcggtcg ggcaggcatg  2160
ggggccgagc ggcccggagt gccggagtga gccggggggcc gcgggcggcc cctcctccgc  2220
cgttttctcg ggccgagccg ccccaccgcg ccgcgtcccc tcactcggcg gcgcccgccg  2280
gctgcttgta gcatacactc tggttttcct cccaccgcac caggcacttt gtggtttctg  2340
agcatcttcc caagctcttc catccagact gccagggctg tccttggagc tcatctccaa  2400
tcccatggca atcttcccca gccgtggggc tctcacgttt ctacctctag cctggacttg  2460
ctgtgagctc cagacccatc tctccagctg cctccttgac atcctgcatg tctagaaggc  2520
atctcggacc gaacacagcc tacgtggact ccacgtgtt                          2559
```

<210> 6714
<211> 4528

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4529)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4147)...(3510)
<223> similar to gi1469165 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6714
```
taggagagcc gagctgggta cgagactaaa gggcccacat gacccagtga cgccagattt      60
ccaccgagga ctgagtgagc tgctcagaca tggctttctg cctcccagcc tgtcctccac     120
tgtgggcata gcatctgtgc ctgcctgcct gcttgaggga gaggagtttc tgctgctgcc     180
ttgagctggg gggaagagcc caggggcaga tcctggcagc tgcctggatg gggctcctcc     240
ctgcccttat gagcatgcca ggcccagaaa ggccgagcct gggctgcctt cctgccccag     300
ccgagggagg ggtcagacgg ctctaccatg ggtaactcag gcaagagctg gttttcctct     360
ttattctggg tgtgtgcagc tgtgaggccc caacccagga gaggccatgg cctaggtacc     420
tgtgaccacc ctgcccccgt gtagagggca tcgnctttcc tgctatttta ttctttcagc     480
ttttgtctta ggcccagaat caaagtgaaa attgagtcga gctgaccctt acaacagtag     540
gatttagtag ggtagatttc aaatgaggct tcgcttctcc caaagtagcc agtccaagtt     600
ccagtggctg tcgttcagct catgggagct tcatggggac acagccggca caggtgcagg     660
gcccgagtcc gcccacccag cctggcgctg aaactgcaca cgtacactat gtggtttaag     720
agcactttat tattgttctt aaggctactt ttaagtacaa aaaaagatgg cctgccaaac     780
cttttttttt cttcttccag gaaaaacagg ccacagagaa tggtatatta cagatttaca     840
cacatgaaga gaaggtcaga gcgcactgca ggcagcgcgg ctctgggaag aacttcacgg     900
agccccttct tagagcaggg aggggctttt ctcagtgaaa tgtttggttt tctgctgcct     960
cctctgcccc aggcccccct ccagggtact gcctatccca gataggtcag tgcaccaggg    1020
acccggccgc cagcaccgcc gacccctccc agagtgacgc ccttgttcac tgacaaagag    1080
acctgtccca ggagtgtcct ccaccgagcc ggtcagctgt gggtggtttt cctgttacga    1140
cgctcagtag cctgtagcaa taacaaactc gtggctatga atgcagatgc agtgttctca    1200
tagaataact gttcctgcac ttttacagac aaatctacga caaaaaaaaa gatcaacttt    1260
ttttttccga acaacaaaaa aaatgaatga ttacaatagg aaagggaaaa attaaatagc    1320
tacatatcat taacaaatta atgttcttca aaaaatacct acaaatttct ctgtacattc    1380
tttacgcaca gcgtaacgat ggtctcaaaa tcacccatat agaaaagtgt tctcaacgat    1440
ttttcctaca gaaaatatag gggcctgaat gccaaagctt ggaagcccag tacagtggga    1500
gtgaaatgtg tgcggggcaa ggagaagggc ttttcttttcc tccacttttc aaaggcctgc    1560
agccactctg tgactacaag agccagtcct ccgacctttt cacccagtgc caatttccaa    1620
aattcaacag ctaaaaactg taaaaccggg ggtcatacgg tgtgcagagt ccacaaagcc    1680
ttgcaggtga ggtgaccacg cccacgtcac ctggtcaggt gccatcgtcg tgagcctctg    1740
gtgggccagg tgggacacag cacaccccag ggggagggga tagaaacgct cattgaccaa    1800
aaaggagcag ctgtgacctc cacagctgtg tctgtcatgc ttgcttcatc taatttctag    1860
ttagtagcta ttaatatagc aaataataaa tgcagtaata acagtataaa gtcagaggaa    1920
tgtatactgc cttggcccca gcgtacgagg aagcgtataa aacaccatat cacagattgt    1980
ctgtcagtaa tctgctgttc agccaagaga gttcaaaggg agcagtttct gcatgtaggg    2040
aagttggaag acacaaaccc cacctcccct gggagcttgt aacaaagcag acagggatgc    2100
aaaaataaat gatgtcagcc tgcagccaaa ctccagcatc ccacaccgca gctgacccac    2160
tgctcatcgc gagggcctgc caggagctgg cctcccgcac tacttgtgag taaagtgaat    2220
atcaaatacc aatcttagag tacaactgta ccagcagtaa gtatatctag gactgtaact    2280
gacaaaaata aactaattct gaaaagaaga tagtaagtat taaggttttt gtttactgtc    2340
```

5376

```
tatataatta atagaaacca gctattttt ctccattaaa acatgcatca cgtttaaagc    2400
actatggaat cctccaacct cagctctagt ctaacaaact gcagtgttca gagaagataa    2460
aatgcccgtg attggtagag tctgcagtcc agttgcaagc ccctgaaatc tagagagaga    2520
aagacctata acctgtatga gacttcccct tccaaagctg tattgtctac attaaaaaaa    2580
acaaaaacag taacaacaac aaacacacaa atggtcagaa atgtcatcct taaacccttt    2640
gtttttcagc agtttgccct cagagttctg gcataacaca taaagttgtc aggcaacttt    2700
agtcctcctc caatagtgca aatcagacac gacagttctc ttcaagtata cacacgcaca    2760
cacatggacc gaaccaaaca cgccgtggaa gctgagccac acacaccccg gtctcaagaa    2820
gcaaaggaaa aagcacaaag cgtctgagtc accaattcat catggcttgt gactgagaaa    2880
gcgctgtgga gtcctggccc cgtcggggca gcagacctgc atcagaggtt tctttggtaa    2940
ctgaggcagg aagtaaggat gctacattag acagatgttc cacgcgtagt tcctgctatc    3000
atgtttgagg gccccttgt acggatacca agcaagtaca aaaacagaac acaaatccca    3060
acaacatggt ttttgcaaat aaaccatccc ttcccttccc cccaccccac ccccatgatt    3120
ttttttttt taagtactga ctgttcaaag ctcaggcaaa ccatgcagat ccacgtgttg    3180
ttggaggagg cgctcccttc aggagaccac agagggggag tgactgtggc tgaccatgtg    3240
ggcagagggg ctggcgggct ggcccctgcg agaggcggac tcagggctgc tggatgctcc    3300
gtccttggcc gctttgatct ggagccacgt gtcacccaga gctttgggca aagtggtcag    3360
tccacggagc ccgtgattgg acaccggagt ttgggtgccg gctcgggctc ctttgtaatt    3420
cttgcccagg gctcctgcgg aaaatgctcc tccacccacg ggtccacagg tggtggcagc    3480
tgcaggcaaa gcaggaaggc aggcagtcag acacaggtgg cgctcggtgg cctccggtag    3540
ctggcaggcc cgggcgcggc acagccgctg tgcgcgaatg gggtagtgcg agaggttgca    3600
gttgcgggcg ccagccgagg cacaggtgat cacggagggc cggttctgct gtcgctcccc    3660
cggggtcagt gtgggcgaga ggccggctgg cctgctggcg tccaggctgt tcttggtcag    3720
tgcgaggggc tgctccaagg ccaaggcttg gggagggagg tgtacaggtg gctgccgtgc    3780
aggctcatgg tggggccac agcgcgctcg atggggctgc ggctccgctc ccgggggtct    3840
ctgcggcagt ctccattggc agtcttgttc agatgggggt tgaagatgcg actcattttg    3900
gagacgtggt cgttgtcaca gtctaggtcc tcgtcacctg gctccatgct gaacttcctc    3960
ttgctggggc tgattggggg agggccggtg cggtgactgc tgagggcaga ggccaccggc    4020
agggtctgca ttctgggttc tcccctgaga gcagcttcgc cttcgtagca cagaatgccg    4080
atattgttgt tcatcttgtc caagtactga tagttcaaca ggtccatctt cataaatagc    4140
atttattggg ctagcaaaaa aaaccagctc tttgcttttg ccccaaaaga gttaagtttc    4200
aaaaatcaat tgttgctgag tagctcctgg ctcttcaact tcccaaaggc aaaggcccag    4260
cctcagacta tcaaaacaaa gtatgcaaaa gttaaaaaaa aaaaaatcag gcacaaaaaa    4320
atcgagctca cacgaaaccc ttcaagggct tactggtaga cggtgtatgt actgtatccc    4380
cgatcgagta tgaaaacagc gtttcagaag tccttacaag tccttcctgg aaatggaaaa    4440
gagtgaaaaa gagaaacgcg cagcccgttt cctaggacaa agcggcgccg gcccctctca    4500
cagcccgctg caagccggca gcgctgac                                        4528
```

<210> 6715
<211> 2018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (58)...(640)
<223> similar to gil770515 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6715

```
tttcgtggag gagctttctg ggagtagccg gtgctgagag aaccgtggct ggcaaagatg     60
attcaggcga ttctggtttt caacaaccat gggaagccac ggctagtccg cttctaccag    120
cgtttcccag aagaaattca acagcagatt gttcgagaga ctttccatct agtcctcaag    180
cgggatgaca acatctgtaa cttcttggag ggtggaagtt tgattggtgg ctctgactac    240
aaactgatct accggcacta tgctaccctc tactttgtat tttgtgtgga ttcctcagag    300
agtgaacttg gaatcttgga cctcatccag gtttttgtgg aaactctgga taagtgtttc    360
gaaaatgtgt gtgaattgga tttgatcttc catatggata aggtgcacta catcctccag    420
gaggtggtga tgggtgggat ggtgttggaa acaaacatga atgaaatcgt ggctcagatt    480
gaggctcaaa acaggctgga gaaatccgag gggtggcctt tcagcagccc ctgcgcgggc    540
tgtgtctgct gtgaaaaaca tcaacctgcc agagattcct cggaacatca acattggcga    600
tctcaacatc aaagttccca acctgtccca gtttgtctga ggatcaagta ttggcctgaa    660
atagagtcct taagacaagc aaagacaagc aaggcaagca cgtctggaaa cagaacccat    720
tttgagcctt agaagagtca agcctcagga cctggaaact ttgtgtctgg ggaagactgt    780
ttggcatgga atagggaagg gattcctatt gacactgctc gggtgcaccc agttctcaca    840
tgtgcagtca tgccgttctc tgatgcatac ggccactgca gatgtgaggg gccctgcctt    900
cctcagtagg gagtcaacat gcccaagtca tttgcacctt tacctctcac atggatgctc    960
ccaagggtta gggactgcat tgagcaggcc cacctgcttc ccagaacctc ctcactaggg   1020
ctgagcacct tctctgagta gagtcttcat ccttagcacc acagacttct gaggtcctgt   1080
gcccttract tgctggtgag gtgtcatagg tagaaaaggg ctggcccttc agatctgggg   1140
gtgtggtgag tggcaagtaa gggcagaatt ttaggagaac cagagtcacc cgctggctct   1200
actgagattg ttacacccag aatccttttg gggttttttg tggtttttt ttttgaggt   1260
ggagtcttgc tctgtcaccc aggctggagt gctgtggtgc aatctcggct cactgcaacc   1320
tctgcttccc gggttcaagc atttctcctg tctcagcctc cccagtagct gggattacag   1380
gcacccacca ccatgcccag ctaattgttg tatgtttagt agagacaggg tttcaccatg   1440
ttggccaggc tgggctcgaa ctcctggacc tcaagtgatc tacccgcctt ggcctcccaa   1500
agtgctggca ttacaggtgt gagccaccgt gcccggccac cagaatcctt tggtatagcc   1560
aagccttttg gttaccgcct catgaagaat atgcttccg cattgtccta gtcccagttg   1620
tattctcaca ggtgttatgt gcaggacaca atccaaatca taaacctggc tcatgcccaa   1680
cacatttctg ctaataggga gagggaccca ccacacaccc acacatgcca gaggtccctc   1740
ctcacagagg agagggcctg tgtctgtaga aggttaaagc tgacaacatg tgaaacatcc   1800
cagaattatg actcttccca agtttaaaat acattctcct catgagagca gaaggtttgt   1860
tgctgtgttg tgaatgatga gctgcctcca tagggaaccc actgccacct gggccagctt   1920
ctggagcatg agaacctgag ccaggtcac ccttgtgggg cctggacatg acgcacgctg   1980
gctgcgacta ggagcagggc tgcctcttct ccctcccc                           2018
```

```
tggccgcccg cgtatgtaag attggatcct ttaaaacggc cgcccctttt ttttttttt     60
aagtgaaata atagatttat tcaaagagaa ataaaatgtc ctgggtaaag cttctgtaat    120
aatactattt ctgatactgt atctctgaaa aatggctaac tagtcacctt atcaatacat    180
```

```
ttaaggcatc aataataggt accactgagg acatacattg tgaagaaaga gaagaataag      240
tcaaatacta aaacatactt atcatgacaa ctcaaggtga catgaatatt taatgaaaat      300
ttagaatata acaacatatg actctcattc tgtggacata aaaggaaaaa tacagtaatt      360
cattttactc attacatttt acaaaatcag cccaatgaag cagtattttt taataaaaac      420
agtaatttaa tttcaaacaa atatattacc atcctattcc tttatcttgt atatatgtat      480
ctaattggca aaacatactt tactgaaatc agtaacaatc caatccatga tacttcaatt      540
gcttcgatca ataaacatct taaatttgaa actcattttt cttatgccat aagcctgatt      600
atcagttcta taaaaacgct acaccctatt gcttggccca ttaagtgtaa ctagtcttct      660
gcacaaggct aagtggctaa ggtacttttg aacaaccaca cacaattcat caagcacaca      720
cactcactcc tgctcctctc acacacggcc accagagcag ctcccctagt tctcttgttc      780
ctcatagtga gcatagccac tagcataggt ccttcctaaa ttcaaattag taaacaaatc      840
tgatgactca gtatctgaat cctttctgcc ttcatcttct tcctcttcat catcctctgc      900
ttcatactca tcctcctcct catcgtggta gctggtatca ccatacttat cagatgaaag      960
gttcttccaa taagcatcat acccagaagc tccatctccc tcttcacctc cagtctgcct     1020
gccaaatttc agggagcgtg ttgacatgct aaggtcctta gtctcctgag tttcatgccc     1080
acatttagga caaggaggct gttttccttt ttcttgctta aacactttgc tccttgtatg     1140
atcatcacag aaacaagcct tacaacggag acatgagtgc tgaccaagcc gattgcatga     1200
aacacattta aatgtttctg cctctaaaac ctggcagctg gcttgatgct caaattgatc     1260
atcttcacag agaaagttat ggcaaaaaga acaactgaat attctgcctc catggtccca     1320
cacgcctcgt tcacattcaa caacactcag catcggtaag agggcaggca caagcatgtg     1380
tactgagaca cttcctccca tggcaaaccc aagcttcaca gaagtcacat attgcaccca     1440
ccattgcaag gccagtactg tatacaccag catgctttat gacacagtct gaagacttca     1500
tcatgcactt tgtttttccca cactgtgcac aaattggtaa cttctgtaca gaattacaaa     1560
agtagcaaaa tgctctattc ttctgccgcc tctgacactt gtcacattcc attgaggcat     1620
tacatggatg tttagctaaa tctatagtgc ttcttgatgc tcttagttgt ttttcacgtt     1680
ctcggcggtt ctcagccttc ttcctcgcac cagtcttttt tttaggcatt ttcccctcgt     1740
gcgcgctccg ggcaaacctc gctcactttc gccgggagac cggactcact caggggggccg    1800
agggacaggg aatggcgtga ggcccacccg cgacagcagt aaatccaact cgtggaccag     1860
gactccggga aagaaggtac taacagccag ggaggctgac agccgat                   1907
```

<210> 6717
<211> 1736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (218)...(1608)
<223> similar to gi5262613 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6717
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ggtgcgtcgc gggggcgggg ccgcgcaggc gtaccgggtg ccccggctct ggagcataaa       60
caagagcggg gacgggatga ggcggcggtt gatcccaggg tggcgagtgg cggcgaccga      120
ggcggcgagc ggggcccggc gccgaccctg agtgcagcct gacccgccct cgcgcgcgcg      180
ccctccccgg ccgggcccac tcgccgcgcg cccagccatg aacctggcga gccagagcgg      240
ggaggccggc gccggccagc tgctcttcgc caacttcaac caggacaaca cagaagtgaa      300
aggggcatca agagcagctg gtcttggccg tcgcgctgtt gtctggtccc tagctgttgg      360
tagtaagtcc ggttataaat ttttctccct ttcttctgtg gataagctgg aacagatcta      420
tgaatgcacc gatacggaag atgtgtgcat tgtagagaga ttgttctcca gcagcctagt      480
```

5379

```
ggccatcgtg agccttaaag caccaaggaa gctaaaggtt tgccacttta agaagggaac      540
tgagatctgc aactacagct actccaacac gattctggct gtgaagctca acaggcagag      600
gctgatagta tgcctggagg agtccctgta catccacaac attcgggaca tgaaggtgct      660
gcatacgatc agggagacgc ctccaaaccc tgcaggcctg tgtgcgctgt caatcaacaa      720
cgacaactgc tacttggcgt acccagggag cgcgaccatc ggagaggtgc aggtcttcga      780
taccattaat ttgagagctg caaacatgat tccggctcac gacagtcctt tagcggcact      840
ggcctttgac gcaagtggaa ctaaacttgc cacggcttcg gagaagggga ccgtgattag      900
ggtattttcc attccagaag gacaaaaaac tctttgagtt tcggagagga gtaaagaggt      960
gcgtgagcat ctgctccctg gccttcagca tggacggcat gttcctctcc gcctccagca     1020
acactgagac cgtgcacatc ttcaaactcg agactgtgaa agaaaaaccc ccagaggagc     1080
ccaccacctg gaccgggtac ttcgggaaag tgctcatggg cctccaccag ctacctgcct     1140
tcccaagtga cagaaatgtt caaccagggc agagctttcg ccacggtccg cctgccattc     1200
tgcggccaca aaaacatctg ctcgctagcc acaattcaga agatcccgcg gttgttggtg     1260
ggtgccgccg acgggtacct gtacatgtac aacctggacc cccaaggagg gcggcgagtg     1320
tgcccctgat gaaaccagca ccggctggaa cggcagtctt ggaaaacgac caaatgagaa     1380
tcttgggaac tctgccttct cacgaattgc ccccttagtc acctcagaca ttacggcgca     1440
gcttgcagga aaaggtactt acgtgccttc atccccaacg gagacttgcc ctacacgaga     1500
cgaccctggg tgctgtgggt ggcgcctgcc ctggaggacc gaaggcccac gccctgcgcc     1560
ctggatgagg acagcgagca cccgcccatg attcttcgga ctgactgaac ttgacctgtg     1620
acctctgacc cggggagcag agaacactgg cttcacagag gactttgtgc attgctgcct     1680
atgaactttg acctgagtcg ggggagagga tggcagagac tttattaaaa aaaaaa         1736
```

<210> 6718
<211> 1483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1374)...(565)
<223> similar to gi5912460 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6718
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ttttttttggt cggatcctcg tctttattct cgggaacgga aacaaccggc ggcctgaaaa      60
ggaccaaagc tcatccttta aaaataaaat gaaaataaaa aacgtattat ttggctccaa      120
aacttccgtc atgagaataa caactctgaa tggcaccttt tcacacatcc actgtgccca      180
acggccagtg cttcacccaa ccgcaggcca gatgccgtga ctcctaacgt ctttagagaa      240
cagtatcaga cggcacacca aggcgtttta agacacggga atttgtttcc tatggacatt      300
tcttttttac caaaaaaaaa tataataact tagtttgcat tttacagcat ttccaatcgg      360
ccagggcatc cttggctgga agctcatggg gttgagtgtg gcgagaacgt ccacagcttc      420
ggtaccaggg tcaggcctgg gcccagggca tgcggctccc agcgcgcggc cctcaccgca      480
cggccccacc aggaccgcag cgcccaccgc agcctgtgac tcatcaggag aggaagggca      540
gcggcccacg gagtcagtcc gtgccaacct cacaagggtt cagcccc ctc tcctgggcat      600
ccctgtacat cctctggaag tccttgaagc gtggggcaca gccgagccgc gcctccccga      660
agtgcatgtg gccagtgaag aggaagtcgc catgccccgg ccgcacgcca cactccagca      720
gcgtcctgac gcgcccctgc cagtggccgt caccctcggg caccggctcg aagaccctgc      780
ttttctgccg atagagtctg ctcacgcgca ggtggatggc tgagtcctgc cgctcaggct      840
cgtgggtaac ttgctggatg gagcctcgaa cggcgaagtc gctggtgcag acggctagga      900
gcacctcggt gtcactgcag ggacggcacg gcgcagacag ctcgtgcagg tccgacgccc      960
```

5380

```
tgtgcctcct aaccagctcg tactggaagc ctgtggtcct ccggccgata tcctgctgcg      1020
gcgtggcctc cacgaacagg ccgccctgct ccaggccaaa acactgcacc cggccgggcc      1080
tgccgtcccc gtccggtacc agcagtctca gttctccagt tttttccaaa taaatattgg      1140
cccccgagga gtccgtgaag gacctgatgc acacggtcag gtgccgggca ggcgagaagg      1200
tgttgggccg caggttaacg atgagagcac ctgttgggta catccactcc acggcacccg      1260
ccgcacagcg cagatacacc tgctccacct ccttcctgtg tgcctcgtgc gtcagcccgc      1320
tcgcagcggg ggaagcaacc cgttcggggt gccagcgagc acagcgtctg ccctaacccg      1380
gcgccctggt gctgctcggc atcagggtgc ggggtcccgg gagaggagcc gtccaggggg      1440
ccgcggctca ggggcgcgcg tacgcgtggg cgaacgcgtg ggt                        1483
```

```
            <400> 6719
ggctgcccga gcgagcgttc ggacctcgca ccccgcgcgc cccgcgccgc cgccgccgcc       60
ggcttttgtt gtctccgcct cctcggccgc cgccgcctct ggaccgcgag ccgcgcgcgc      120
cgggaccttg gctctgccct tcgcgggcgg gaactgcgca ggacccggcc aggatccgag      180
agaggcgcgg gcgggtggcc ggggcgcccg ccggccccgc catggagctc cgggccccgag     240
gctggtggct gctatgtgcg gccgcagcgc tggtcgcctg cgcccgcggg acccggcca      300
gcaagagccg gagctgcggc gaggtccgcc agatctacgg agccaagggc ttcagctcga      360
gcgtacgtgc cccaggcgga gatctcgggt gagcacctgc ggatctgtcc ccagggctac      420
acctgctgca ccagcgagat ggaggagaac ctggccaacc gcagccatgc cgagctggag      480
accgcgctcc gggacagcag ccgcgtcctg caggccatgc ttgccaccca gctgcgcagc      540
ttcgatgacc acttccagca cctgctgaac gactcggagc ggacgctgca ggccaccttc      600
cccggcgcct tcggagagct gtacacgcag aacgcgaggg ccttccggga cctgtactca      660
gagctgcgcc tgtactaccg cggtgccaac ctgcacctgg aggagacgct ggccgagttc      720
tgggcccgcc tgctcgagcg cctcttcaag cagctgcacc cccagctgct gctgcctgat      780
gactacctgg actgcctggg caagcaggcc gaggcgctgc ggcccttcg gggaggcccc      840
gagtagagct gcgcctgcgg gccacccagt gccgttcgtg gctgctcgcg tcctttgtgc      900
agggcctggg cgtggccagc cgacgtggtc cggaaagtgg ctcaggtccc cctgggccgc      960
ggagtgcttc gagagctgta attgaagctg ggtcttactg tggcttcact gcgtgggagt     1020
ccccggcgcc aggccatgcc ctgactattg ccgaaatgtg ctcaagggct gccttgccaa     1080
ccaggccgac ctggacgccg agtggaggaa cctcctggac tccatggtgc tcatcaccga     1140
caagttctgg ggtacatcgg gtgtggagag tgtcatcggc agcgtgcaca cgtggctggc     1200
ggaggccatc aacgccctcc aggacaacag ggacacgctc acggccaagg tcatccaggg     1260
ctgcgggaac cccaaggtca accccccaggg ccctgggcct gaggagaagc ggcgccgggg     1320
caagctggcc ccgcgggaga ggccaccttc aggcacgctg gagaagctgg tctccgaagc     1380
caaggcccag ctccgcgacg tccaggactt ctggatcagc ctcccaggga cactgtgcag     1440
tgagaagatg gccctgagca ctgccagtga tgaccgctgc tggaacggga tggccagagg     1500
ccggtacctc cccgaggtca tgggtgacgg cctggccaac cagatcaaca accccgaggt     1560
ggaggtggac atcaccaagc cggacatgac catccggcag cagatcatgc agctgaagat     1620
catgaccaac cggctgcgca gcgcctacaa cggcaacgac gtggacttcc aggacgccag     1680
```

                                    5381

```
tgacgacggc agcggctcgg gcagcggtga tggctgtctg gatgacctct gcggccggaa   1740
ggtcagcagg aagagctcca gctcccggac gcccttgacc catgccctcc caggcctgtc   1800
agagcaggaa ggacagaaga cctcggctgc cagctgcccc cagcccccga ccttcctcct   1860
gcccctcctc ctcttcctgg cccttacagt agccaggccc cggtggcggt aactgcccca   1920
aggccccagg gacagaggcc aaggactgac tttgccaaaa atacaacaca gacgatattt   1980
aattcacctc agcctggaga ggcctggggt gggacaggga gggccggcgg ctctgagcag   2040
gggcaggcgc agaggtccca gccccaggcc tggcctcgcc tgcctttctg ccttttaatt   2100
ttgtatgagg tcctcaggtc agctgggagc cagtgtgccc aaaagccatg tatttcaggg   2160
acctcagggg cacctccggc tgcctagccc tcccccagc tccctgcacc gccgcagaag   2220
cagcccctcg aggcctacag aggaggcctc aaagcaaccc gctggagccc acagcgagcc   2280
tgtgccttcc tccccgcctc ctcccactgg gactcccagc agagcccacc agccagccct   2340
ggcccacccc ccagcctcca gagaagcccc gcacgggctg tctgggtgtc cgccatccag   2400
ggtctggcag agcctctgag atgatgcatg atgccctccc ctcagcgcag gctgcagagc   2460
ccggccccac ctccctgcgc ccttgagggg ccccagcgtc tgcagggtga cgcctgagac   2520
agcaccactg ctgaggagtc tgaggactgt cctcccacag acctgcagtg aggggccctc   2580
catgcgcaga tgaggggcca ctgacccacc tgcgcttctg ctggaggagg ggaagctggg   2640
cccaaaggcc cagggaggca gcgtgggctc tgccaatgtg ggctgcccct cgcacacagg   2700
gctcacaggg caggccttgc tggggtccag ggctgttgga ggaccccgag ggctgaggag   2760
cagccaggac ccgcctgctc ccatcctcac ccagatcagg aaccagggcc tccctgttca   2820
cggtgacaca ggtcagggct cagagtgacc ctcagctgtc acctgctcac agggatgctg   2880
gtggctggtg agaccccgca ctgcagacgg gaatgcctag gtcccttccc gacccagcca   2940
gctgcagggc acggggacct ggatagttaa gggctttttcc aaacatgcat ccatttactg   3000
acacttcctg tccttgttca tggagagctg ttcgctcctc ccagatggct tcggaggccc   3060
gcagggccca ccttggaccc tggtgacctc ctgtcactca ctgaggccat cagggccctg   3120
ccccaggcct ggacgggccc tccttccctc ctgtgcccca gctgccaggc ggccctgggg   3180
aggggtggtg tggtgttggg aaggggtcct gcaggggag gaggacttgg agggtctggg   3240
ggcagctgtc ctgaaccgac tgaccctgag gaggccgctt agtgctgctt tgctttttcat   3300
caccgtcccg cacagtggac ggaggtcccc ggttgctggt caggtcccca tggcttgttc   3360
tctggaacct gactttagat gttttgggat caggagcccc caacacaggc aagtccaccc   3420
cataataacc ctgccagtgc cagggtgggc tggggactct ggcacagtga tgccgggcgc   3480
caggacagca gcactcccgc tgcacacaga cggcctaggg gtggcgctca gaccccaccc   3540
tacgctcatc tctggaaggg gcagccctga gtggtcactg gtcagggcag tggccaagcc   3600
tgctgtgtcc ttcctccaca aggtccccc accgctcagt gtcagcgggt gacgtgtgtt   3660
cttttgagtc cttgtatgaa taaaaggctg gaaacctaaa aaaaaa          3707
```

```
        <400> 6720
agcggccgcc gcggtcgccg ccgccgcctc ctcctgccgt ccgctcggct caggcgcggg     60
ccctggcccc actggggcgg ccccggtctc cgccctgcc cccgggccgg gcccggcagg    120
taagggaggc ggcggcggag gcagccccgg gcccacggcg ggcccggagc ccctgagcct    180
```

```
gccgggggatc ctgcacttta tccagcacga gtgggcgcgc ttcgaagccg agaaagcccg      240
ctgggaggcc gagcgcgccg agttacaggc tcaggtggcc ttcctttcag gagagaggaa      300
agggcaggag aatctaaaga cggacctggt gcggcggatc aagatgctag agtatgcgct      360
gaagcaggaa agggccaaat atcataaact gaagtttggg acagacctga accaggggga      420
gaagaaagca gatgtgtcag aacaagtctc caatggcccc gtggaatcgg tcaccctgga      480
gaacagcccg ttggtgtgga aaggagtggc tgcaacttct cctacagtac ctgcaagagg      540
tgggctacac agacaccatc ctcgacatgc ggtccaagcg cgtccgttcc ctgctgggcc      600
gctcgctgga gctcaacggg gcagtggagc cgagtgaagg ggcccccagg gctccaccag      660
gccctgcagg gctcagtggt ggggagtcgc tgctggtgaa acagatcgag gagcagataa      720
agaggaacgc ggcaggcaaa gatggcaaag agcgcttggg cggctcagtg ctggggcaga      780
tccccttcct gcagaactgc gaggacgaag acagcgacga ggacgatgag ctggacagcg      840
tgcagcacaa gaagcagcgt gtgaagctcc catccaaggc tctggtgccc gaaatggaag      900
acgatgatga ggaagacgac tctgaggatg ctatcaatga gtttgatttc ctgggctcag      960
gagaggatgg ggaaggggct ccagaccctc ggcggtgcac tgtggatggg agcccccatg     1020
agctggaaag ccgtcgggtc aaactccaag gcattctggc tgacctgcgg gatgtggatg     1080
ggctgccccc aaaagtgact ggcccgcctc ctggcacacc ccagccccgg ccacatgaag     1140
acgtcttcat catggacact atcggggggcg gggaggtgag cctggggggac ttggcagatc     1200
tcaccgtcac caacgacaac gacctcagct gcgatctgtc tgacagcaaa gatgcttta     1260
agaagacgtg gaaccccaag ttcaccctgc gctcgcacta cgacggcatt cgttccctgg     1320
ccttccacca cagccagtcg gctctgctca ccgcctccga ggacggcacg ctcaagctct     1380
ggaacctgca gaaggcggtc acggccaaga agaatgcggc gctagatgtg gaacctatac     1440
atgctttccg ggctcacagg ggcccaagtg ttggctgtgg ctaggggcag caacagtgaa     1500
tactgcttac agtggcgggg cagatgcctg catccatagt tggaagattc cagaccttca     1560
gcatggatcc ctatgatggc tacgacccaa gcgtgctgag ccacgtcctg gagggccacg     1620
gggacgccgt gtggggcctg gccttcagtc ccacctccca gcgcctggct tcctgttctg     1680
ctgatggcac cgtccgcatc tgggacccca gcagcagcag cccggcctgc ctctgcacct     1740
tccccacagc cagcgagcac ggggtcccca cctcagtggc cttcaccagc accgagcctg     1800
cccacatcgt ggcctccttc cgctctggcg acaccgtctt gtatgacatg gaggttggca     1860
gtgccctcct cacgctggag tcccgggggca gcagcggtcc aacccagatc aaccaagtgg     1920
tgagtcatcc aaaccagcct ctcaccatca ccgcccacga cgacagggggc atccgcttcc     1980
tggacaatcg gacaggtaag ccggtgcact ccatggttgc acacctggac gcagtcacct     2040
gcctagccgt ggaccccaac ggcgcattcc tgatgtcagg aagccatgac tgctccctgc     2100
gtctctggag cctggacaac aaaacgtgcg tgcaggagat cacggcccac cgcaagaagc     2160
acgaggaggc catccacgct gttgcctgcc accccagcaa ggccctcatt gccagtgctg     2220
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cgctggctgg ggtgtagggc cgggcaggtg gggctgaggg gactcccagc ctcgctggag     2340
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cccaggaatc cctccccaac ggctgccttc cccaagcatc cagcctgggg atgggcccct     2460
ttcaggaatc accccccgagg atggcctcgg ggtttcccc tgtgccctga cagccgctcc     2520
tggtatcaga gctgctttcc agagggcagc acagccaggg ccgggtgtct ttagggatca     2580
gttttttccaa gactccagaa ggtgccaggt tctccccttg agctcctgct cccccatccc     2640
ccatcctccc agacctgggc aggagctgtg ctgggagaaa gggtggcagc cgggagcctc     2700
agagctgagc cccggcctgg ctgcccctcc cctccggccc tctccactgc tttccagaca     2760
ctaaccaagg cttccaggcc agggattgcc caacactcct agggcaagcc tcccagcgcc     2820
ccatggggtc gcccatgggt agagacggct ttcttgtgcc cctc               2864
```

<210> 6721
<211> 2066
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

5383

<222> (1725)...(604)
<223> similar to gi5734367 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6721
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tttttattt  gtgggaaaat  aactttattc  atgactgtgt  ttaccacact  atcttatgga     60
gaagagatga  tcaataaata  tttgttgaat  aaatgaatag  cagttacaaa  acacttgatt    120
catatggaat  taatgttggt  tctcaaagtc  gaaaaattac  aaacaggcac  tgatgttcag    180
ccagtataca  agtctgggtc  acagcaggtt  gtataatact  gaaatacccc  ctgccactga    240
cctttgggcc  cccaagatgc  cctccccact  ggccactgct  tctccccact  gggaaccccc    300
tgaaagttcc  caacaggctc  ataacaaaag  ggctaatgtc  tcgcacagca  gcggagcacc    360
caggaccgag  cagccacatg  ggccgggtct  gctggtgaaa  gcatccattc  tgactgatca    420
ggacctgagg  ggcctcatgg  ttacatattt  tgataatatc  cctaattata  aataaggctc    480
agttatatag  tttgaaaaca  atgcttctcc  tcattgcaaa  atctcttaga  agactccgta    540
gatccaggaa  cggaaatgga  aaatgacagc  gtgtcaatct  ctgaaggttt  tgggcatttc    600
cattagcact  ccatcttcat  gtaaaccaga  agatatgcag  tttcctgcca  gtggtagtta    660
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aagcagaacc  attttccatc  cacagcattc  cggacgtaga  cacagtaatg  accggagtct    780
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gcatcacaag  actctcgctt  cattggaagg  atctggctga  aatccaagct  ctgggggaag    900
tacagggagt  ggcagatctt  tctcggtctg  tgaattcctg  atggagaatc  gcatgaggtg    960
gattgtcagg  gtctggggca  aatgggtcag  cttcaagacc  tgtttcccac  gggtcttctt   1020
cccacagttc  tcacagaagc  acttgctttt  gcttgataac  tccctgggct  ggaagaagca   1080
gtgcagggcg  tcctccagtg  tcttcagggg  ctttgagtcc  acatcaaaaa  gagaaagtgg   1140
gagggtgagc  atgctgctgt  ttctgctact  ctccatggca  cagtcaacgc  aaatcaagga   1200
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caagggcacg  ttgcacttct  gcaggcagta  ggccagctcc  aggggccgca  ctgctttctg   1380
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ctcgtcagct  cccctgggca  ccgtgatcct  cttcaatatc  ctggtgaagt  ccacattcat   1500
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ccaaggccat  gagggtagtc  ccaggccctg  ggacgctctc  tgggctgctc  tctcttcatg   1620
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atggactgac  agatttgcct  caggagccca  aacgccttgc  tcattcgtga  tcactccaaa   1740
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cgcttatgtg  agccaggcac  gatggaatct  ctcaagcgcc  atgcaagcgt  ccagcctccg   1860
ctgctgagtt  ccacgtcggg  actgagccgg  ggaccgagct  gggaccgaag  ttccgctccg   1920
ggcccgcctt  ggtctggccc  cgcgctcgtg  gcaccccgcc  cagctttcgt  tttccactga   1980
atggaaagcg  aaacttacag  cggcctccgc  gccgggagct  gggcgccagc  gtgcggggaa   2040
accctgccgg  cccgagcttc  acgaaa                                           2066
```


<210> 6722
<211> 2355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(1642)
<223> similar to gi4235110 in the genepept database release 114,

5384

Run with FASTXY 3.3t00, default parameters

```
<400> 6722
acgcgtccgg cttttccgga gctctgcaca gatgctgggg cactgagcaa acagccctca      60
gtttctggag ctgttccgag tcccgtggag tctccatctg agccctttcc tagtccaggc     120
atcccgatgt tggtggatgg cccatctgag cggccagccc tgtgcttctt gctgttggct     180
gtggcaatgt ctttcttcgg ctcagctcta tccatagatg aaacacgggc gcatctgttg     240
ttgaaagaaa agatgatgcg gctggggggg cggctggtgc tgaacaccaa ggaggagctg     300
gccaatgaga ggctcatgac gctcaaaatc gctgagatga aggaggccat gaggaccctg     360
atattcccac ccagcatgca cttttttccag gccaagcatc tcattgagag aagtcaagtg     420
tttaatattc taaggatgat gccaaaaggg gctgccttgc acctccatga cattggcatc     480
gtgactatgg actggctggt gaggaatgtc acctacaggc ctcactgcca catctgtttc     540
accccaaggg ggatcatgca gttcagattt gctcacccaa ctccccgtcc atcagaaaaa     600
tgttccaagt ggattctgct ggaggattat cggaagcggg tgcagaacgt cactgagttt     660
gatgacagct tgctgaggaa tttcactctg gtgacccagc acccggaggt gatttacaca     720
aaccaaaatg ttgtctggtc gaaatttgaa accatcctct tcaccatctc tggtctcatc     780
cattacgcac cagtgttcag agactatgtc ttccggagca tgcaggagtt ctacgaggac     840
aacgtgctct acatggagat cagagccagg ctgctgccgg tgtatgagct cagtggagag     900
caccatgacg aagagtggtc agtgaagact taccaggaag tagctcagaa gtttgtggaa     960
actcaccctg agtttattgg aatcaaaatc atttattcgg atcacagatc caaagatgtg    1020
gctgtcatcg cagaatccat ccgaatggcc atggggctcc gaatcaagtt ccccacggtg    1080
gtggcagggt ttgacctggt ggggcatgag gacactggcc actccttgca tgactacaag    1140
gaagctctga tgatccccgc caaggatggc gttaagctgc cttacttctt ccacgccgga    1200
gaaacagact ggcagggtac ttccatagac aggaacattc tggatgctct gatgctgaac    1260
actaccagaa tcggccatgg atttgctttg agcaaacacc ccgcagtcag gacttactcc    1320
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tctgacttga ggaaccaccc tgtagccact ctgatggcca ctgggcaccc catggtgatc    1440
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ttcatgggca ttggggggat gaaggctgac ctgaggaccc tcaaacagct ggccatgaac    1560
tctatcaagt acagtaccct gttggagagt gagaaaaata ctttcatgga aatctggaag    1620
aagagatggg ataagttcat agcagatgtg gctacaaagt gaggagaagc tagccagccc    1680
tctacaagct gtcttcttgc acacgctgtc acttcctctc actcgttctt gaatcagctc    1740
catgtgccca tgaaatcaat ggcctctgta tggagcgacc ctgtgagaag cacttggctg    1800
gctgagcaaa ttcatcctct ggaaatattc tctctcagcc acagtgacat tgaccctctt    1860
ggttttctcc tctctctggc catttcttcc agtttcccta tttcagagtc ttctcctctc    1920
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ttatttttt ttttttgtat tttttcgaga tggagttttg ctcttgttgc ccaggctgga    2040
gtgcaatggt gcaatctcgg ctcactgcaa cctccacctc ccaggttcaa gcaattctcc    2100
tgcctcagcc tcccaagtag ctgggattac aggcatgcac caccacgccc ggctgatttt    2160
gtatttttag tagagacggg gtttctccat gttggtcagg ctggtctcga actcccgacc    2220
tcaggtgatc cgcctgcctc ggcctcccaa aatgctggga ttagaggcgt gacaccacgc    2280
cgctaatttt tgtatttttta gtagagatgg gtatgagcac tgcactccag ctgggtgaca    2340
gagcaagacc cgtct                                                      2355
```

```
<210> 6723
<211> 1162
<212> DNA
<213> Homo sapiens

<220>
```

<221> misc_feature
<222> (14)...(961)
<223> similar to gi4884258 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6723
```
gggggaaggg gtgggctttg cgcaagatgg cggcgctggg ggtgctggag tccgacctgc    60
caagtgccgt gacacttctg aaaaatctcc aggagcaagt gatggctgta actgcacaag   120
tgaaatcact gacacaaaaa gttcaagctg gtgcctatcc tacagaaaag ggtctcagct   180
tcttggaagt gaaagaccag ctgctgctca tgtaccttat ggatttgacc cacctcattc   240
tggacaaagc ctcaggagga tctcttcagg gacatgatgc agttttgaga ctggtagaga   300
ttcgaacggt tttggaaaag cttcgtccct tggaccaaaa gctgaagtat caaattgaca   360
agctgatcaa gactgcagtg acaggcagcc ttagtgagaa tgacccactt cgttttaagc   420
ctcatcccag caatatgatg agcaagttga gctctgagga tgaggaggaa gatgaagcag   480
aagatgacca gtctgaggct tcaggaaga aatctgtgaa gggagtgtct aagaaatatg   540
ttcctccacg cttggttcca gtacattatg atgaaacaga agctgagcgg gagaagaagc   600
gtctagaacg agccaagaga cgggcattga gcagctctgt cattcgtgaa cttaaggagc   660
agtactcaga tgctccagag gaaatccgtg atgctcggca tccccatgtt acccgccaga   720
gtcaggagga ccaacacagg attaactatg aggagagcat gatggtgcgt ttgagcgtca   780
gtaagcgaga gaaaggacgg cgaaaacgag caaatgtcat gagctcacaa cttcattccc   840
ttacacactt cagtgacatc agtgctttga caggggaac tgttcatctt gatgaggatc   900
agaatcctat taagaagcgg aagaagatac ctcagaaagg tcggaagaaa aaaggttttc   960
ggaggcggcg gtgattatgg gtgtacatat ttgtatattt tttgtcatcc tgagatactt  1020
ctaatttcca ttgtattatt aggtggtttt ccctgggaat tccatttaat tgttttgctt  1080
tgggacatgt gggaaagagc cttactaata aaattgattt tacttatgaa ttaaggcccc  1140
tttttgcaca aaaaaaaga ag                                            1162
```


<210> 6724
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (137)...(1057)
<223> similar to gi3392917 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6724
```
tttcgtgaag tggcttcatt tcagtggctg acttccagag agcaatatgg ctggttcccc    60
aacatgcctc accctcatct atatcctttg gcagctcaca gggtcagcag cctctggacc   120
cgtgaaagag ctggtcggtt ccgttggtgg ggccgtgact ttccccctga agtccaaagt   180
aaagcaagtt gactctattg tctggacctt caacacaacc cctcttgtca ccatacagcc   240
agaaggggc actatcatag tgacccaaaa tcgtaatagg gagagagtag acttcccaga   300
tggaggctac tccctgaagc tcagcaaact gaagaagaat gactcaggga tctactatgt   360
gggatatac agctcatcac tccagcagcc ctccacccag gagtacgtgc tgcatgtcta   420
cgagcacctg tcaaagccta aagtcaccat gggtctgcag agcaataaga atggcacctg   480
```

```
tgtgaccaat ctgacatgct gcatggaaca tggggaagag gatgtgattt atacctggaa      540
ggccctgggg caagcagcca atgagtccca taatgggtcc atcctcccca tctcctggag      600
atggggagaa agtgatatga ccttcatctg cgttgccagg aaccctgtca gcagaaactt      660
tctcaagccc catccttgcc aggaagctct gtgaaggtgc tgctgatgac ccagattcct      720
ccatggtcct cctgtgtctc ctgttggtgc ccctcctgct cagtctcttt gtactggggc      780
tatttctttg gtttctgaag agagagagac aagaagagta cattgaagag aagaagagag      840
tggacatttg tcgggaaact cctaacatat gccccattc tggagagaac acagagtacg      900
acacaatccc tcacactaat agaacaatcc taaaggaaga tccagcaaat acggtttact      960
ccactgtgga aataccgaaa aagatggaaa atccccactc actgctcacg atgccagaca     1020
caccaaggct atttgcctat gagaatgtta tctagacagc agtgcactcc cctaagtctc     1080
tgctcaaaaa aaaaacaatt ctcggcccaa agaaaacaat cagaagaatt cactgatttg     1140
actagaaaca tcaaggaaga atgaagaacg ttgacttttt tccaggataa attatctctg     1200
atgcttcttt agatttaaga gttcataatt ccatccactg ctgagaaatc tcctcaaacc     1260
cagaaggttt aatcacttca tcccaaaaat gggattgtga atgtcagcaa accataaaaa     1320
aagtgcttag aagtattcct atagaaatgt aaatgcagtc gacgcggccg cg            1372
```

<210> 6725
<211> 3316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3317)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (18)...(578)
<223> similar to gi412184 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6725
```
gcggccgcgg agggacgatg cgcgagtaca aagtggtggt gctgggctcg ggctggggta       60
ggcaaatccg ccctgaccgt ggcagttcgt gacctgcacc ttcatcgaga aatacgaccc      120
caccatcgag gacttctacc gcaaggagat cgaggtggag ttcgtcgccg tcggtggctg      180
ggatatcctg gacacagcag ggcaccgagc agttcggcgt ccatgcggga cctgtacatc      240
aagaagggcc agggctgcat cctcgtctac agcctcgtca accagcagag cttccaagga      300
catcaagccc atgcgggacc agatcatccg cgtgaaggtc agtgagaaag tgccagtcat      360
ctttggttgg gaaccanagt ggacctggaa agtgagagag aagtatcgtc cagcgaaggc      420
agagcccttg ctgaagagtg gggctgcccc tttatggaaa cttccgctaa gagtaaaaca      480
atggtggacg aactctttgc agaaattgtg aggcagatga actatgctgc tcagcctgac      540
aaagatgacc catgctgttc tgcatgtaac atacaatagc atccaaatat ggctgtcctg      600
gatgggattt gcccaatgtc gtaggtgata gaaaactcgc ctactccact gcagaacttg      660
cagaatgcgt ggtgttaatc tacagagaac tgcagccctt attcagaatt gagcagtgat      720
tgtcagttga tatctctgag taacatttgg gttcagtaac tacagttttc accatttgtc      780
ctcagtctcc tttatgcatc tgcaacttta aggcatagtc catcgatcta cagggtgatc      840
tcatttgaaa gctatgatgg cattgtcgct gagttgacag aagcaactat tgtacaaatt      900
aaaaataacc ataagggaga aaccagaaga attcctctga ccacttacaa ttaaaatatt      960
ttgtcttctt taaaaaaata agtaaaggag aaatattttc ctacaagagt actgaatttc     1020
```

```
aggaaatggg atagagcttc taaccagtgt attccgtcaa gtaagataat aacagctgac  1080
ctgccaacag cattacaggg agattctttg ctcagctaac acatttctgt ttttcaaaat  1140
tgatgcttaa ttgtagctgt tattctaatt tgtgacatgg aactaactca tgcttcaatc  1200
cttgatagag caaaactcag aacaggttat gtaaaaatat agtctggctt tagaatttgt  1260
taattcacct gctttgccac agaaaatgga ggctttcaca agggtttgat cagaattaaa  1320
accccaaacc cgccctctgt taggggtggg ctttataact ttactgaaca agagggaagc  1380
aactgtgatg ggaagagatt acctagcctt actaacaaga agcattctaa tagataaact  1440
agtaccatca tgtaaggaag atgaagccat gttgcatcca catgttcccg tttgcagaaa  1500
cctcacagga cagtacgaat atctggcatt tttaagttca ttaaagcagc aaattccttc  1560
tcgcctttaa gggctatggt tgtagtgtga cccgtggcta acctgctttc aaaatcaagt  1620
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tttgggctta aaagtgaaca taaattatag agtggaaggt aagggacaaa agcccttttac  1740
cttaattt cctggagaat tatataaagg ttttcttaga acaattttgc cctgattact  1800
gaagcgtcaa ataaagctgg agtgaaaatt ttgtttgaa aaggtgctca agctctgaca  1860
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acctattcat aagttttaca atcaagtata gaggggtctt cagctaactt agttatacat  1980
aaatgctgaa aagattatct tgagctgggc cttgggagaa gaatttggcc ttcagaactg  2040
caatatcact gagcctgcga tctatacacc accccacatt ttgttggttt cacagtcttg  2100
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acgtgaatga aaccaggcca tagctgtcat aaatctttga cttttgaata tttacattct  2460
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ttggttgagt tttgattcct ctaacttctc agaatgattc tttagaattc tataattcat  2700
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cattatggct tgctatgcag atgtgaaaat aggttaaata atatgaaaga tatggcagaa  2820
tgtaaagtgg aaaagatgac ctaaaatttt gagttgtatt aatagttaaa aacatttgtg  2880
tcagatgaca gggtgggctt ttactgtcaa gacatgaata agaactgatc tggctgcctg  2940
atgagtgttt ccacgcagcc ctgcatattt agtgaccaag gcatcaagga catcccgaaa  3000
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atgtgtttgt tggaggatat ttacagtaat taaaacactt taggaacagg aaggttaca  3120
tttgttggcc atacggaaac cttagtgggc tacaggaggn aagtttgacc ttgtgtcact  3180
tattttattt ttatggccct ggtccagact aggccacttn ggataaggtg gaaagttttt  3240
cttaacctgc cctnaaaaat nttatggggt tggtcccaag gcccactttt tcctttagcc  3300
cttgtggata aggatt                                                  3316
```

<210> 6726
<211> 3559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3560)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (153)...(1812)

<400> 6726

```
tttcgtcgcc tagggagaaa acgtctgact ccagccaccg gccttcaagg cacggctttt      60
tattccttcg gctggtcggc ctctcgccct tcagctacct gtgcgtccct ccgtcccgtc     120
ccgtcccggg gtcaccccgg agcctgtccg ctatgcggct cctgcctcta gccccaggtc     180
ggctccggcg gggcagcccc cgccacctgc cctcctgcag cccagcgctg ctactgctgg     240
tgctgggcgg ctgcctgggg gtcttcgggg tggctgcggg aacccggagg cccaacgtgg     300
tgctgctcct cacggacgac caggacgaag tgctcggcgg catgacacca ctaaagaaaa     360
ccaaagctct catcggagag atggggatga cttttttccag tgcttatgtg ccaagtgctc     420
tctgctgccc cagcagagcc agtatcctga caggaaagta cccacataat catcacgttg     480
tgaacaacac tctggagggg aactgcagta gtaagtcctg gcagaagatc caagaaccaa     540
atactttccc agcaattctc agatcaatgt gtggttatca gacctttttt tgcagggaaa     600
tatttaaatg agtacggagc cccagatgca ggtggactag aacacgttcc tctgggttgg     660
agttactggt atgccttgga aaagaattct aagtattata attacaccct gtctatcaat     720
gggaaggcac ggaagcatgg tgaaaactat agtgtggact acctgacaga tgttttggct     780
aatgtctcct tggactttct ggactacaag tccaactttg agcccttctt catgatgacc     840
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aattaggcaa gccaagactc caatgactaa ttcttcaata cagtttttag ataatgcatt    1020
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caatacctat gcctgtgtga ggacaatgtc agcattgtgg aatttgcagt attgcgagtt    1560
tgatgaccag gaggtgtttg tagaagtcta taatctgact gcagaccagg accagatcac    1620
taacattgct aaaaccatag acccagagct tttaggaaag atgaactatc ggttaatgat    1680
gttacagtcc tgttctgggc caacctgtcg cactccaggg gtttttgacc ccggatacag    1740
gtttgacccc cgtctcatgt tcagcaatcg cggcagtgtc aggactcgaa gattttccaa    1800
acatcttctg tagcgacctc acacagcctc tgcagatgga tccctgcacg ccctcttttct    1860
gatgaagtga ttgtagtagg tgtctgtagc ctagtcttca agaccacacc ctggaagagt    1920
ttctgggctg gctttaagtc ctgtttgaaa aagcaaccca gtcagctgac ttcctcgtgc    1980
aatgtgttaa actgtgaact ctgcccatgt gtcaggagtg gctgtctctg gtctcttcct    2040
ttagctgaca aggacactcc tgaggtcttt gttctcactg tattctttttt atcctggggc    2100
cacagttctt gattattcct cttgtggtta aagactgaat ttgtaaaccc attcagataa    2160
atggcagtac tttaggacac acacaaacac acagatacac cttttgatat gtaagcttga    2220
cctaaagtca aaggacctgt gtagcatttc agattgagca cttcactatc aaaaatacta    2280
acatcacatg gcttgaagag taaccatcag agctgaatca tccaagtaag aacaagtacc    2340
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gcaaattcaa aacatgtcac ccaagctctg ttcatgtttt tgtgaattct aggctggtgc    2460
tgcactgaaa tagagcagta agcttgtgat aaaggccaat tccaggtagc tcttgaaggt    2520
gatagccatc tactttccag tggctgccaa ccacagggag tgccagttaa cactggaagg    2580
attaaggcaa ggtcccttct cttgagactc ccctctgaga tctgaaaaat gaagtggctt    2640
aggaacatca gcagtgaaga actgccaaga gttggtgaag gttgtctctt ccgagggcct    2700
tctgaagaca gggctcttga acagacaagt ggaagggctg taccagggat aaaggaaaga    2760
agtgcctgtc cagcagggag cttgaattta agttccatgt atgaagtcat tggctctatc    2820
tgcatttttc tgtcattctc ttcatttgtt ttaaggtgga aaattttctt acagttgatg    2880
caaagtatca actactttac cctaccttct ccccttttag atgggttctt cctgagtttt    2940
ggagtcttgt atgattatca gtattcccct gtcaaaatca aatctattca ggtttcttca    3000
```

```
ctgttgagaa cacctaaatg tttttatttt tgagaagtgg ggacagagtc tcactatgtc    3060
acccaggctg gagtgcaatg gcatgatctc agctcactgc aaccttcgcc tcctgggttc    3120
aagcgattct cctgcctccg cctcctgagt agctgggatt ataggcacac accaccacgc    3180
ccagctaatt ttttgtattt ttagtagaga cagagtttca ccatgttggc caggctggtc    3240
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gttccatttc taatgttgtc ctcacaagaa ggctaattgg tggtgagaca gcaggggagg    3420
aggaagagct gtggtttgta acttgttcaa ctcaggcaat aagcgatttt agctttattt    3480
aaagtcttct gtccagcttt aagcactttg taagacatgg ctgaaagtag cttttctttt    3540
caganttgca gatagtcat                                                 3559
```

```
<400> 6727
ggaattcccc tttcgacgat attcggcgga agtctgcagc cgagagtcca gagaggagga     60
agctcctgcc ggctgagcgg gcctggagga agtgagcagc ggggctcctg cctcccggcc    120
tggtccccga agaccccaga agaacccgga acttgcttcc attcggaatc cagggaccac    180
cctttgcact cagtaggcct ttgttttcct gcgtggaaag cggttgggct tgggaggcga    240
tggagccgga gttcttgtac gacctgctgc agctccccaa gggggtggag cccccagcgg    300
aggaggagct ctcaaaagga ggaaagaaga aatacctgcc acccacttcc cggaaggacc    360
ccaaatttga agaactgcag aagcctgcag gtgttgatgg agtggatcaa tgccactctt    420
ctccccgagc acattgtggt ccgcagcctg gaggaggaca tgttcgacgg gctcatccta    480
caccacctat tccagaggct ggcggcgctc aagctggaag cagaggacat cgccctgaca    540
gccacaagcc agaagcacaa gctcacagtg gtgctggagg ccgtgaaccg gagtctgcag    600
ctggaggagt ggcaggccaa gtggagcgtg gagagcatct tcaacaagga cctgttgtct    660
accctgcacc tccttgtggc cctggccaag cgcttccagc ccgacctctc cctcccaacc    720
aacgtccagg tggaggtcat cactatcgag agcaccaaaa gtggtctgaa gtcagagaag    780
ttggtggaac agctcactga atacagcaca gacaaggacg agcctccaaa ggacgtcttt    840
gatgaattat ttaagctggc tccggagaaa gtgaacgcag tgaaagaggc catcgtgaac    900
tttgtcaacc agaagctgga ccgcctgggc ctgtctgtgc agaatctgga cacccagttt    960
gcagatgggg tcatcttact cttgctgatt ggacaacttg aaggcttctt cctgcactta   1020
aaggaattct acctcactcc caactctcct gcagaaatgc tgcacaacgt caccctggcg   1080
ctggagctgc tgaaggacga gggcctgctc agctgccctg tcagccctga agatatcgtg   1140
aacaaggatg ccaagagcac actgagggtg ctctatggtc tgttctgcaa gcacacgcag   1200
aaggcacaca gggacaggac gccccatgga gccccgaatt gaccctcact gcctccaaag   1260
cccagagcct gcctgtcagc ccagctggag ggcccgaggc tgcagggtgt cctcccacag   1320
tcccgctgtt tcctgtgcat tcgtgacccg cttccctccc accctgtctc ctgtctccat   1380
cgttggatta tctttgaacc cccttgtgtg gatcattttg agccgcctgg ccttgctcag   1440
tttatttttaa taaaagtatt tctgggaggg attctggaaa aaaaaaa                1487
```

<210> 6728
<211> 1561
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1415)...(314)
<223> similar to gi193840 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6728
```
tttttttttt ttgccgcggg aagctcagtt tttattgaag acagagtctg ggagaagaag      60
ggggactccg gaagacagtg atgcggtcgg agattgtgca ggccccgggc cgggaagtgg     120
gcggtgtctg ggtgggcggg accagcgccg gggcggggct acggactcag gctgggagaa     180
cctcccccta gcccgcgcga gggcggcacc cgcggaggtc ccggggggcg ctgggcagtg     240
tggggcgcgg ggattggaca agaggccgac tgaaggcgga gccgaggtaa ggccgggcgg     300
ggcgtggcct cagagggcgt ctgactgctc gccctgggcc tggctctgct gcatttgggc     360
ctgcatcttc tccagcatct cttgcatgcg gcgcagctct tcgtctttct cgcggatcag     420
cttctcggtg tccgccagag gcagcatggg cagcgggatc tctgtggcgc tctggcggga     480
aagcttactg cggctggctc gatcgcgagc cccaggccgg gcccaggctc tgtaggcagc     540
gggcccggta gccctcgtag agcagatcgt gcgtcacctc tttcaggtcc tgcaggtgtg     600
tctgcaccag catccgtcgc aggttcagga aatcgcagtg atgtgggttc tccacctcca     660
cggtccccca ggagtagcgg cgtcccctca ccggccggtt cccgccatcc ctcaccacct     720
cgcatgatcc cacgactgca aaagggatgc tttccttcat ctctgcatcc tgcctcttga     780
agtcttcatc ttcatcagag tcacattcgg ggaactggta gatgtggatc tcctcttcct     840
tcaactgatc ccggatcttc tgcttgaggg cctgggtttc ctggggcatc agagcatccg     900
ctttgccaat gactgggatg atgttgactt tctcgtgtac tgcccggagg aaggccacat     960
ctaggggccg gagcccccgg ccgaagggtg agatgaagta gaggcagcag tggactcggg    1020
agtcctggat gttcttccgg ttcaggccac tctcatccct aaggtactgc tcaaattgct    1080
cctcgatgaa tttcaccacc ggaagccagc agtcagagca gtccactgag tccccaaagc    1140
caggtgtgtc cacaagggtc agcttcactt tcacaccccc ttcctcaatc tttacgcccc    1200
ggcgctcaat ggccagggtc tgtgtcaagc gagcactggc ctctggcacc tggcgatcct    1260
catagaggtt ggtgaggaag aggctgttga tgagggtgga tttccctagg cctgactccc    1320
ctgccaccat tagcgtgaag tcaaacccct tcttgacaga cttgcggtgc agctggttgg    1380
ggagagcagc aaaacccacg tactccttgt ccatgactcc gccagccatc actgcacctg    1440
ccgtctctcc ccacttcctc tggtggggca ggaagctgag tgcggcttca accctccatc    1500
cttcacacat ctggattcca agtcccactg tagctccatc atcgacgaaa tcgtcgaccc    1560
g                                                                    1561
```


<210> 6729
<211> 1539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(1540)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (520)...(620)
<223> similar to gi1786168 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6729
cctagctcat atctggattt tcacgtgtgc cttgggatca cagggatgga aaggctgggc   60
ctcacgggga cctcctaggt ccagggcact gagtaggagg gcacagtgga agacagcaag   120
actgtctcac atctaacaag cacactcacc ctcacccggt tttcctaggt cagagcttgg   180
ggaaagccaa agggtaaggg caggccatgg tcttcttacc ccctggacac cgggcgggaa   240
gacgtactgg atgacaatgg tgccgtactt ctcatagctg ggcagtagga gggtggcgtc   300
cttagagacc agcatccgcc cattctgggg ctggttgccc accagctgcc catagaagcg   360
gccgcacatg gggcaggcct ttttcacctg cagagcccgg gtgatgacag cacctctcag   420
aatgaatgcc ggcacttctc caatgtcttg gcattctgga tctcccccag acagatgggg   480
caggtgctct cctgctcttc tgcctcctcc cgaaggcgag gaggaagagg tgggggcagg   540
gggggaggag gaagggggg agccccccgag cctcctgggg ggcagaagtg gggctgctcg   600
gagagggggt gggcctgcgc ggtgcatctc agggtgctcc cctccacccc ccagaagcca   660
ggcaagccca tcagcttccc cctgcctctg aactttcctt cagctctgtc tcagggctcg   720
ttttaagcag ccccttgaga ggccttccgg gctaggtaga gcccatttgg aggggccggg   780
ggaggaccct gtggggaaag ctggagaaca tagatgtcag aagtctcgcc atctatgagg   840
atggacacac ggtgctcctc ccgaagccgg gccagccggg ctggggtctc tttgctcagg   900
aagtcccaca cgggcttgga cacagtcact ttgttcttgc aggtgcctcc acaggctgcc   960
attctggaca ggacgaacga catttgatcc tgaagagctt agaattggca tgcaggctca 1020
ctcttctttc cctgctccct acttgtaggt cgtgtgacct ggaaagccca tggaagatga 1080
tggcagcaga aatccttcta tttccactca gctgaccagg acttttaaac ccagcacagg 1140
cagtgctgtc tgtcagctcc caagtctggc atttagggag gggcgggggct cacacaaggg 1200
ctcagctgga ggggcctgat gttttccctg agtctggtcg cattgggcta cggggctgtc 1260
tccacaacac ttccaaatgc agctcaaaca gaaagaaggg ccattagtgt gacctccatt 1320
tattgactga tccaagaagg agcagctgtc ccttcatgcc tccatcatcg tcccccaagg 1380
ccagatgcac ctcgagattc ataagtgaaa atggaaccct agagtctcag cccatacagt 1440
ctatccgcga tgcaacactt ctctccccat cacgggggac ccaggaccta ggtgtcctag 1500
gtccaatnnn nnnncgaaat cgtcgacccg gggattccg   1539

<210> 6730
<211> 4569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (23)...(4257)
<223> similar to gi3413884 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6730

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ggagccatgg cagaaaatca gtgatgtcat tgaggactct gtagttgaag attataattc   120
agtggataaa actaccacag tttctgtgag ccagcagcca gtctcggctc cagtgcccat   180
cgctgcccat gcttctgttg ctgggcacct ctctacatcc accaccgtta gtagcagcgg   240
ggcacagaac agcgacagta caaagaagac tcttgtcaca ctaattgcca acaacaatgc   300
tggcaatcct ttggtccagc aaggtggaca gccactcatc ctgacccaga atccagcccc   360
aggtctgggc acaatggtta ctcaaccagt attgaggcct gttcaggtca tgcagaatgc   420
caatcatgtg actagttccc ctgtggcctc acaaccaata tttatcacta cgcagggatt   480
tcctgtaagg aatgtccggc ctgtacaaaa tgcaatgaat caggttggga ttgtgctgaa   540
cgtacagcaa ggccaaacgg ttagaccaat tacactagtt ccagccccag gtacccagtt   600
tgttaagccg acagttggag ttccacaagt gttctcccag atgacccctg tgaggccagg   660
ctccacaatg cctgtgaggc ccaccaccaa caccttcacc accgtcatcc cggccactct   720
taccattcga agcaccgtcc cacagtccca gtcccagcag accaagtcca ctcccagcac   780
ttctaccact cccactgcca cacagccaac ctcactgggg caactagctg ttcagtctcc   840
aggccagtca aaccagacca cgaatcccaa gctagctccc tccttcccct ctccacctgc   900
agtgagcatt gccagctttg tcactgtgaa gcgacctggt gttacaggcg aaaatagcaa   960
tgaagtggcc aaattggtga atacccttaa caccatccct tccctgggcc agagtcctgg  1020
gccagtggtg gtgtccaaca acagctctgc tcattggctc tcaaagaacc agcggacctg  1080
agtcttcaat gaaagtgacc tcttccatcc cagtatttga cctccaggat ggtggacgga  1140
aaatatgtcc acgatgtaat gctcaatttc gtgttactga agctttgaga ggtcacatgt  1200
gttactgttg cccagaaatg gttgaatacc agaagaaagg aaagtccctg gattcagaac  1260
ccagtgtccc atcagcagca aagcccccat cccctgagaa aacagctcct gttgcttccc  1320
acacccctct tctacaccta ttcctgctct gtcaccgccc taccaaaagt accagaacca  1380
aatgagaacg tgggcgatgc cgtccagacc aaactcatta tgcttgtaga tgacttctac  1440
tatggacggg atggtggcaa agtagcccag ctcacaaatt tccctaaggt cgccacatct  1500
ttccgatgcc cacattgtac caaaaggcta aaaaacaata ttcgattcat gaaccatatg  1560
aaacaccacg tagaactcga tcagcagaac ggtgaggtag atggtcacac tatctgccag  1620
cactgttacc gccagttttc cactcccttc cagcttcagt gccacttgga aaatgttcat  1680
agtccctatg aatctactac caagtgcaag atctgtgaat gggcgtttga aagtgagcca  1740
ctatttctcc agcatatgaa ggatactcat aagcctggag agatgcctta tgtttgccag  1800
gtgtgtcaat atcgctcctc actctactct gaggtagatg tccattttcg gatgatccat  1860
gaggataccc ggcatctgct ctgcccttat tgcctgaagg tcttcaaaaa tggcaatgca  1920
ttccaacagc attacatgag gcaccagaag aggaaatgtt tatcacttgc aacaaatgcc  1980
gggtgcagtt tctctttgcc aaggacaaaa ttgaacacaa gcttcaacac cataaaacct  2040
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agtgggtgct aacccagcgc gaacaacagc tacctgtaaa tgaggagacc ttgttccaga  3180
aggccaccaa aataggacgt tctttggaag gggggtttaa gatctcctat gagtgggctg  3240
tgcgtttcat gctgcggcac cacctgactc cccatgcccg gcgagctgtg gcccacaccc  3300
```

5393

```
tacctaagga tgtagcagag aatgcaggac tcttcattga ttttgtacaa cggcagattc    3360
acaaccagga cttacccttg tctatgattg tggctattga tgagatctct ttgttcctgg    3420
atacagaggt gctgagcagt gatgatcgaa aggagaatgc cctgcagaca gtgggcacag    3480
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tggttttcta cagagggcag atggatcagc ctgctaacat gccagactcc atattgctag    3600
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ggcagaagca cacagcttgc cagcgcagca aaggcatgct tgtgatggac tgtcatcgca    3720
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actcccccct gaagttgact tacacttccc tgtggatttg tggattaatt aggaaaacca    4440
atagtaatca cgtctgagcc aaggagctgg cccattggtc attcacttct gctaaaaaca    4500
ggttttgtg actttttttt tttttaaatt aaaatcactg ggttgggaat ttttctgaca    4560
aaaaaaaaa                                                           4569
```

```
        <400> 6731
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ccgtagaggt gcacagagaa cacccctagc atgaacagtg tgaggattcc accagctttt    120
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agaaggcctc cgtggaggcc agattgaagg ccgccatcca gtcacagttg acggggtgc     300
gcacaggcct cagccagctc cacaacgccc tgaatgacgt caaagacatc cagcagtcgc    360
tggcagacgt cagcaaggac tggaggcaga gcatcaacac cattgagagc ctcaaggacg    420
tcaaagacgc cgtggtgcag cacagccagc tcgccgcagc cgtggagaac ctcaagaaca    480
tcttctcagt gcctgagatt gtgagggaga cccaggacct aattgaacaa ggggcactcc    540
tgcaagccca ccggaagctg atggacctgg aatgctcccg ggacgggctg atgtacgagc    600
agtaccgcat ggacagtggg aacacgcgtg acatgaccct catccatggc tactttggca    660
gcacgcaggg gctctctgat gagctggcta agcagctgtg gatggtgctg cagaggtcac    720
tggtcactgt ccgccgtgac cccaccttgc tggtctcagt tgtcaggatc attgaaaggg    780
aagagaaaat tgcaggcgc atacttgacc ggaaaaagca aactggcttt gttcctcctg    840
ggaggcccaa gaattggaag gagaaaatgt tcaccatctt ggagaggact gtgaccacca    900
```

5394

```
gaattgaggg cacacaggca gataccagag agtctgacaa gatgtggctt gtccgccacc    960
tggaaattat aaggaagtac gtcctggatg acctcattgt cgccaaaaac ctgatggttc   1020
agtgctttcc tccccactat gagatcttta agaacctcct gaacatgtac caccaagccc   1080
tgagcacgcg gatgcaggac ctcgcatcgg aagacctgga agccaatgag atcgtgagcc   1140
tcttgacgtg ggtcttaaac acctacacaa gtactgagat gatgaggaac gtggagctgg   1200
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attctttcct aagcagatat aaagatgaag cgcagctgta taagaagag cacctgagga   1560
atcggcagca ccctcactgc tacgttcagt acatgatcgc catcatcaac aactgccaga   1620
ccttcaagga atccatagtc agtttaaaaa gaaagtattt aaagaatgaa gtggaagagg   1680
gtgtgtctcc gagccagccc agcatggacg ggattttaga cgccatcgcg aaggagggct   1740
gcagcggttt gctggaggag gtcttcctgg acctggagca acatctgaat gaattgatga   1800
cgaagaagtg gctattaggg tcaaacgctg tagacattat ctgtgtcacc gtggaagact   1860
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tcgtggctgt ggccgaagtg atcaagctga cagacccttc tctgctctga cctgggaggt   2160
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cccagcacag gccagcccca gctacgtgcc cctcttcaag gacattgtgg tgcccagcct   2340
gaacgtggcc aagctgctca agtagcctcc gccggcctgc cctgctcgcc cctccacagc   2400
ctcggtccct gcctttagaa acgcgggaca gctgattgct ctccttggcc acacgtgctc   2460
cttttagctg cacggcctgt ctttaggtgc cagtgtgatg caccgggtgt gcgtcgagtg   2520
agcgtcccga ggccacgtgc ggaggcccct cactgtgctg tcaaaggcct gtgggtgcag   2580
ggctctgccg cacagcctct cttgggtgct tgtttgttgc agtggttgaa agtgtgtggg   2640
gcacagagga cgtgcacctc cctgccctcc tcctccctgg gccttcaccg caccccatct   2700
gcttaagtgc tcggaacccc gtcacctaat taaagtttct cggcttcctc agagaaatga   2760
aaacgccatg cattctcttt ccagttaag gttttctgac tactgatcta ggattgccca   2820
ggaactgttg tcaatcacag agtaaaagtc tccgctcagc ctggagggcg ccctcctggt   2880
cccctcctgt ctgacatccc ctcagcctag agggtgccct cctgatcccc tcatgtctga   2940
catcccctca gcctagaggg tgccctcctg atcccctcat gtctgacatc ccctcagcct   3000
ggagggcgcc ctcctgggcc cctcctgtct gacatcccct cagcctagag ggg           3053
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<210> 6732
<211> 1704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1699)...(1169)
<223> similar to gi473943 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6732
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tttttttaag gttaagagct gatgttttac aggtaaaatg agaaatgtgg tctgggtgca     60
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5395

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gtgactcact cctgtaatcc cagcactttt ataggccaag gcaggtggat cacctgaggt    120
catgagttcg agaccagcct ggccaacatg gtgaaacccc gtctctacta aaaatacaaa    180
aaattagcca ggcgtggtgg caggcgcctg taatcccagc tacttgggag gctgaggcag    240
gagaagcgct tgaacccaga aggcagaggt tgcagtgagc caagatcacg ccactgcact    300
ccagcctggg agacaacagc caaactccat ctcaaaaaca aaccaaaaca aaaaaaacct    360
tcaaaggtag tatcacaatg tgaataaact gagaatgtgg aagtctccac atttcacata    420
caccatccat aaagaagtat aaaactcaac acatgaatag cagacgatgc tatcagcaga    480
taatagcact tttattagca gtactcagca ggaaaagaaa aagcagttcc tggttgttat    540
ttctgttttc tctgtttctt agggcgtcca cttttcttct gtcctttctt cttcgtttta    600
aggagaacag ctttttctcc aataaataag cttttaggat gtccttctgc agttttggaa    660
gtaaaattaa gtccctgctt aggtttactg acattcttca atcgtggatt tgaattttgt    720
tgtttaaatt tttctttatt aacagaacgc atgactctga gttttctccc catgagttca    780
gaattatttta atttcagagc aagatgaaca gaatctgtat tctcaaagag cacatagcca    840
aaccctttgc cgatgcctgt cattttgtct ctcacaatcc tcacggccat gatacttcca    900
cagtccagaa agtgcttctc aatggcagat tcttcaactt tataagggag attccccaca    960
aaaaccgatc tcttgtctct agatgaggtc tcagatgcga gatcaactct aatacgaaat   1020
ccatctgcaa tctgggcccc atttcttttc aatgcttgcg tggcagcact ctcctcctta   1080
aacacaacat aggcattaat attttctga tcaggatgaa ttttacgttt tattgctgcc   1140
aacttttgg atagcgttcc ctctgctgga atcagagaac gaaatcgtac agattctatt   1200
tgtccatact ctttaaaaaa cgacttcagc ttcttcttat tacatgtaac aggcaaattc   1260
ccaacaaaca cagttctctc attctttaat ctctcttctt cttggttgat ttgaattttc   1320
tttctttgac tgacaactgt gtcttctgtg tcatcaagta tttttctatc tgctacttta   1380
acaccaggtt gagaatttt ccttttctgc ccttgtttct ggtgaatttc ttcttctaaa   1440
tcagcactcg ctagagcgct ttcctttagg cacaggcacg tacacgggtt gaatctgggg   1500
ctccagagaa ctgaagaggg acgccagccg accggtgcca cctctggaat ggtgctcgcc   1560
gcgaaataag ctactggcga cctgtccaag cctgtagtct tccggcggac tcccgcgaac   1620
gccgtcgtca ggattctctc cctcctggac acttctcttt ctcttccgtt tgctcatccc   1680
ttccaaggcc attcttactc caaa                                          1704
```

<210> 6733
<211> 2863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(2657)
<223> similar to gi4186038 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

     <400> 6733
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tgaggcctga ggcctggggc gggtggcggc cgggctggcc ttggcctcgc gccttcccct     60
gcggccgccg cgggctccgc gggcggtatc ggagtgtcgt gcggcgcgtg ccgcgtgac    120
acgcgcactt gtcggagtga cgggccctgc ggaagaggag gtgcggccca gggcgcaggg    180
gagccctcgg gagcgggccc ggccctcagc gccgccccgg ccgtgtcccg gaggagcggc    240
ctgcgccgcc gcgcgagagg aagcacccag gcatgtggaa tatgctcata gtggcgatgt    300
gcttggcccc ttctggggct gcctggcaaa gcccaggagc tccagggaca tgtctcccat    360
aatcctggct ggggagcaac tgggggacct ggctaagaag tacttatggc aggggactgt    420
tccagctgta cctggatgaa gcggggaggg gtcacagttt tagcttccat ggagctgctc    480
tgacagcccc caagcagggt caagagctca tggccaaggc cctggaatcc ctctcctgcc    540
```

```
ccaaggacat ggcacccagt cactgtgcag agcacaagga tcagttcctg cagctgagcc      600
agtaccgcca actgaagacg gccgaggact atcaggccct gaacaaggac atcgaggcac      660
agctccagca cgcaggcctc cgggaggcag gagggatctt ctacttctca gtgccaccct      720
tcgcctatga agacattgcc cgcaacatca acagtagctg ccggccaggc ccgggcgcct      780
ggctgcgggt tgtccttgag aaaccctttg gccatgacca cttctcagcc cagcagctgg      840
ccacagaact cgggaccttt ttccaggagg aggagatgta ccgggtggac cattacttag      900
gcaagcaggc tgtggcgcag atcctgcctt tccgagacca gaaccgcaag gctttggacg      960
gcctctggaa ccggcaccat gtggagcggg tggagatcat catgaaagag accgtggatg     1020
ctgaaggccg caccagcttc tatgaggagt acggtgtcat tcgcgacgtc ctccagaacc     1080
atctgacgga ggtcctcacc ctcgtggcca tggagctgcc ccacaatgtc agcagtgcgg     1140
aggctgtgct gcggcacaag cttcaggtct tccaggcgct gcggggcctg cagaggggca     1200
gtgccgtcgt gggccagtac cagtcttaca gtgagcaggt gcgcagagag ctgcagaagc     1260
cagacagctt ccacagcctg acgccgacct tcgcaggtgt cctagtgcac attgacaacc     1320
ttcgctggga gggcgtgcct ttcatcctga tgtctggcaa agccttggac gagagagtgg     1380
gctacgctcg gatcttgttc aagaaccagg cctgctgtgt gcagagcgaa aagcactggg     1440
ccgcggcgca gagccagtgc ctgccccggc agctcgtctt ccacatcggc catggcgacc     1500
tgggcagccc tgccgtgctg gtcagcagga acctgttcag gccctccctg ccctccagct     1560
ggaaggaaat ggagggacca cctgggctcc gccttttcgg cagccctttg tccgattact     1620
acgcctacag ccctgtgcgg gagcgggacg cccactccgt cctcttatcc catatcttcc     1680
atggccggaa gaatttcttc atcaccacag agaacttgct ggcctcctgg aacttctgga     1740
cccctctgct ggagagcctg gcccataagg ccccacgcct ctaccctgga ggagctgaga     1800
atggccgtct gttggacttt gagttcagta gcggccggtt gttcttttcc cagcagcagc     1860
cggaacagct ggtgccaggg ccagggccgg gcccaatgcc cagtgacttc caggtcctca     1920
gggccaagta ccgagagagc tcgctggtct ccgcctggtc cgaggagctg atctctaagc     1980
tggctaatga catcgaggcc accgctgtgc gagccgtgcg gcgctttggc cagttccacc     2040
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atggcttccc ctgggcccac acgcacctgt ggctggttga cgagcgctgc gtcccactct     2160
cagacccgga gtccaacttc cagggcctgc aggcccacct gctgcagcac gtccggatcc     2220
cctactacaa catccacggc catgcctgtg cacctgcagc agcggctctg cgccgaggag     2280
gaccagggcg cccatattta cgccagggag atctcagccc tggggggccaa cagcagcttc     2340
gacctggtgc tgctgggcat gggtgccgac gggcacacag cctccctctt cccacagtcg     2400
cccactggcc tggatggcga gcagctggtc gtgctgacca cgagcccctc ccagccacac     2460
cgccgcatga gccttagcct gcctctcatc aaccgcgcca agaaggtggc agtcctggtc     2520
atgggcagga tgaagcgtga gatcaccacg ctggtgagcc gggtgggcca tgagcccaag     2580
aagtggccca tctcgggtgt cctgccgcac tccggccagc tggtgtggta catggactac     2640
gacgccttcc tgggatgagg gcgcctgtgc cccttgcccg cttcgctcct gtgctttcct     2700
tcgccgtgt cttccctccc ttctcggccc cgccacctgc ccagcgtgcc ctggctctcc     2760
agaaccttct atcccacagt caggccccag agagggcagg acaagccttg tcccgatgcc     2820
tttgaccggc agctctgtgt attggtggat agatgcagaa aca                       2863
```

<400> 6734
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agaaggggga atctctgggc aggggtgaat gtgggagaaa actgagaagg gccagggagg   180
ggagaagtgc cagcagggga gacacaccaa tccatcgctg cagtctcgcc caggtggggc   240
ggcgcagcgg ccggcagccc gtccagctgg cccgccccg  ccgcccccgc tcctggcagc   300
ctgttaaagc ttcagctcgt tggctatttt ggaggcaatg tttttgaagg ccatggaggt   360
gcccgatatc cgcttaaatc gaaccccgtt gagagagagc cgcggcagtt tgcacacctc   420
catctcccac tgcacgaagt cctcgtggcc cggcgtgccg tgcatgcaca gcagcatgta   480
cttctcatgc agctcgctct ggcagctgtt cgcgtccagc accttgcgga tctcccgcat   540
catctcgttg ggctccatgg agctcgtggt cttcatactc cacgtgaagc ggagggagcg   600
gggcttggcc tcccgaaatt cttccttttc tttgtcgttg ccgccactgc ttcaccacgt   660
gaggtctgag cgtctccacg tcggtctttg ctttcaggtt cattcaggtt cctgcgtaca   720
aacttggagg tgaacttgct gaagatgctc ccagaggccc cccgccggcc ctggctgtgg   780
ccagagggag aggctggggt cacaccgtag ggcaaattct gctggtcccc gcacctgtcg   840
gagctgccca gcatggaagg tgcttcggct ggacacaccc cgggggaagt tagttcggtc   900
tggggctcca ccactgctgc tgatgttgtg ggcggatggg gaggcaacag ggacacgctg   960
gggggctgtg ctgggccgcg gcacctcaca gttactctcc gtggggggca gcccagaggc  1020
cttgttgggg tgcacggagg ccgacatgga tttctggtgc tggcggggcc gggccgcaga  1080
gactgcggca gaagcagaag ccgtggaggc ccgggaccct ggcatggtta aggctgtctt  1140
tgcccattct ggatggaagc cctggccgaa ggctggcccg ctcccaaaag tggggaattc  1200
ctgcttcgat ttgtgctggt ggagaggacg ctgttcgtgg aggggggttgg ggtggtcttc  1260
ttcctctcca daccgggcag ggggctggca ggcaccttgg ctgtgctgct ggctttccgc  1320
cctgactccc ggtcctcctc aggccgctta ttttctgcgt tgttactctg agtcttctta  1380
gagtaagaat tagaggtggg aatggcagga ccagcctggt cgctgaagcg ccgctgcttg  1440
ggattggccg acacgctgcg ctgtaccttg tgggatgggg atggggcgct gctattggtc  1500
agatcagctg aaggccgggg tttcagggtg atggtgtcgc cttccagctc ggagctcttg  1560
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tggatctctt cccgtgtata acccatggac accatcagct ctgtccgccg ggggtccttg  1680
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tccatcgatc tttcatgatt tgctctaaag tgcctctctt gctgggatta agaatcagaa  1800
atttcttaag caggttttca cagtccgtgg acatgtagaa tggaatacgg tattttcccc  1860
tcagtacccg ttcccgcagc tccttgaggt tctgtccatc aaaaggcagg gatccgctga  1920
ccagtgtata gaggataact cctaggctcc acacatccac ctcgggtcca tcatattttt  1980
tgccctggaa gagttctggg gcagcataag ggggactgcc acagaaggtg tccagcttgt  2040
tcccaaaggt gaattcattg ctgaagccaa agtctgcaat cttgatgttc atatcagcat  2100
ccaagagcag gtttctgcc  tttaagtctc tatggacaat aaacttctgg tgacagtact  2160
gcacagcaga cactatctgg cggaatttgg ctcgagcctc tttttcttc  atcctgccat  2220
gagccactag gtaatcaaat acctctccgc cactagcgta ctccatgaca aggtagagcg  2280
ttttctcagt ctcaatcact tcaaataatt taactatgtt gggatgattc aaaaccttca  2340
ttattcttac ttcgcggaat agtttctgga ggctggagga gttcagttga gtcttgtcaa  2400
tgatcttcac agctacctct ttcccagtca ggatgtgtcg ggccaacttc accttggcaa  2460
aattaccctt gccaatggtc ttgaggagcc ggtagtttcc aatgtggggc tgctcatcag  2520
cagaggtggc tgagttgcgg ccccgaatca tgttggactt actgctgggc ttggagtcaa  2580
ggtgtcccaa ggtgggccga ctggagaaag ggaaaaggac taccagcgac ttccattcag  2640
cagagcccac agcagaacct gtcaggcagc gagggcaaag tacagaggcc gggaagagcc  2700
aggcctaggg cggggggctgc cggctcagcc agccacccctt actcagccag agcaggcgac  2760
accttccacc acctcctcag tgaaaagtag ctaagcagcc aggccgagcg gttcctgcct  2820
gggaacctgg acggtgtcgc aaccgaaacc accactagca gagagactgg gtttggcaag  2880
gagagcaaca gggacaaagc cccgctggct tctcaagggc cagagcctgg tggtcaggaa  2940
gcgcgtgcaa ttccagga                                                 2958
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5398

<210> 6735
<211> 2314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (88)...(1621)
<223> similar to gi510408 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6735
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gagtttgaat tcttgcaggt gaccaagatg gagttttctg gaagaaagtg gaggaagctg   120
aggttggcag gtgaccagag gaatgcttcc taccctcatt gccttcagtt ttacttgcag   180
ccaccttctg aaaacatatc tttaatagaa tttgaaaact tggctattga tagagttaaa   240
ttgttaaaat cagttgaaaa tcttggagtg agctatgtga aaggaactga acaataccag   300
agtaagttgg agagtgagct tcggaagctc aagttttcct acagagaaaa cttagaagat   360
gaatatgaac cacgaagaag agatcatatt tctcatttta ttttgcggct tgcttattgc   420
cagtctgaag aacttagacg ctggttcatt caacaagaaa tggatctcct tcgatttaga   480
tttagtattt tacccaagga taaaattcag gatttcttaa aggatagcca attgcagttt   540
gaggctataa gtgatgaaga gaagactctt cgagaacagg agattgttgc ctcatcacca   600
agtttaagtg gacttaagtt ggggttcgag tccatttata agatcccttt tgctgatgct   660
ctggatttgt ttcgaggaag gaaagtctat ttggaagatg gctttgctta cgtaccactt   720
aaggacattg tggcaatcat cctgaatgaa tttagagcca aactgtccaa ggctttggca   780
ttaacagcca ggtccttgcc tgctgtgcag tctgatgaaa gacttcagcc tctgctcaat   840
cacctcagtc attcctacac tggccaagat tacagtaccc agggaaatgt tgggaagatt   900
tctttagatc agattgattt gctttctacc aaatccttcc caccttgcat gcgtcagtta   960
cataaagcct tgcgggaaaa tcaccatctt cgtcatggag gccgaatgca gtatggccta   1020
tttctgaagg gcattggttt aactttggaa caggcattgc agttctggaa gcaagaattt   1080
atcaaaggaa agatggatcc agacaagttt gataaaggtt actcttacaa catccgtcac   1140
agctttggaa aggaaggcaa gaggacagac tatacacctt tcagttgcct gaagattatt   1200
ctgtccaatc caccaagcca aggggattat catgggtgcc cattccgtca cagtgatcca   1260
gagctgctga agcaaaagtt gcagtcatac aagatctctc ctggagggat aagccagatt   1320
ttggatttag taaaggggac acattatcag gtagtcctgt caaaaatact ttgagatgat   1380
acacactgtg gatgattgtg gctttttcttt tgagtcatcc taatcagtac ttttgtgaga   1440
gccaacgtat tctaaatggt ggtaaagaca taaagaagga acctatccaa ccagaaactc   1500
ctcaacccaa accaagtgtc cagaaaacca aggatgcatc atctgctctg gcctctttaa   1560
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ttgcagcctt gaccttccca gctcaagtga tcctcctacc tcagcctccc aagtagttag   1800
gaccacaggt gtgcacctca tatccagata atttttttcaa ttttttttttg tagaggtggg   1860
gggtctccct atgttgccca ggcagatctc agactcctgg gctcaagcga tcctcacacc   1920
tcagcgtccc agagtgctgg gattacagtt gtgagccact gtgcctggcc tttttttttt   1980
tttaaacctt ttggttaaac ttctctcttc actgcatccc aatccattta cgggcttgcc   2040
cccttattag ggaaggggggg tttggggtaa ccaacagaga ctttcaccta tattttggct   2100
ttgacagaag gaaagaggaa gagtttctat taaaatctgt cacttgagtg atgtcattca   2160
agtcctattt taggagataa aaacacccttt ggggactggt taaagtcccc cagaaactac   2220
aataaagaac aacttttgtt ttaactctta atcactttgt aattttgact caatccttttt   2280
ctggaccgat ttttgttaat aaatatcaaa gtgt   2314

<210> 6736
<211> 2622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (83)...(2325)
<223> similar to gi53466 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6736
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gagtggagat ggcaacacag gcacacaaac caatggtctg gactttcaga agcagcctgt     180
gcctgtagga ggagcaatct caacagccca ggcgcaggct ttccttggac atctccatca     240
ggtccaactc gctggaacaa gtttacaggc tgctgctcag tctttaaatg tacagtctaa     300
atctaatgaa gaatcggggg attcgcagca gccaagccag ccttcccagc agccttcagt     360
gcaggcagcc attccccaga cccagcttat gctagctgga ggacagataa ctgggcttac     420
tttgacgcct gcccagcaac agttactact ccagcaggca caggcacagg cacagctgct     480
ggctgctgca gtgcagcagc actccgccag ccagcagcac agtgctgctg gagccaccat     540
ctccgcctct gctgccacgc ccatgacgca gatccccctg tctcagccca tacagatcgc     600
acaggatctt caacaactgc aacagcttca acagcagaat ctcaacctgc aacagtttgt     660
gttggtgcat ccaaccacca atttgcagcc agcgccagtt tatcatctca cagacgcccc     720
agggccagca gggtctcctg caagcgccaa aatcttctaa cgcaactacc tcggcaaagc     780
caagccaacc tcctacagtc gcagccaagg attaaccctc acttcccagc cagcaacccc     840
aacatgcaca atagcagcaa cccccattca gacacttcca cagagccagt caacaccaaa     900
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ccaagacctt caaacaaaga cgaatcaaac ttggattcac ctcaggggga tgctgggctc    1020
gctatggtga aactatatgg aaatgacttc agcccaacta ccatctttcg atttgaagcc    1080
ttgaacctca gctttaagaa catgtgcaag ttgaagccac ttttagagaa gtggctaaat    1140
gatgcagaga acctctcatc tgattcgtcc ctctccagcc caagtgccct gaattctcca    1200
ggaattgagg gcttgagccg taggaggaag aaacgcacca gcatagaagc ccaacatccg    1260
tgtggcctta gagaagagtt tcttggagaa tccaaaagcc tacctcggaa gagatcacta    1320
tgattgccga tcagctcaat atggaaaaag gggtgattcg tgtttggttc tgtaaccgcc    1380
gccagaaaga aaaagaatc aacccaccaa gcagtggtgg ggaccagcag ctcacctatt    1440
aaagcaattt tccccagccc aacttcactg gtggcgacca caccaagcct tgtgactagc    1500
agtgcagcaa ctaccctcac agtcagccct gtcctccctc tgaccagtgc tgctgtgacg    1560
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taatgagcaa cagtacactg gcaactattc aagctcttgc ttctggtggc tctcttccaa    2040
taacatcact tgatgcaact gggaacctgg tatttgccaa tgcgggagga gcccccaaca    2100
tcgtgactgc ccctctgttc ctgaaccctc agaacctctc tctgctcacc agcaaccctg    2160
ttagcttggt ctctgccgcc gcagcatctg cagggaactc tgcacctgta gccagccttc    2220
acgccacctc cacctctgct gagtccatcc agaactctct cttcacagtg gcctctgcca    2280
gcggggctgc gtccaccacc accaccgcct ccaaggcaca gtgagctggg cagagctggg    2340
ctgccagaag cctttttcac tctgcagtgt gattggactg ccagccaggt taataaactg    2400
```

5400

```
aaaaatgtga ttggcttcct ctcgccgtgt tgtgagggca aaggagagaa gggagaaaaa    2460
aaaaaaaaac cccccccccc ccttcccccc ttcccaaaaa aaaaaaaaag ggggggggcc    2520
ggacctttgg cctattttg taataaaaca ctgtcttttc aggattgctt catggattgg    2580
agaactttct aaccaaaaat taaaaaaaaa aaaggggg gg                         2622
```

```
        <210> 6737
        <211> 4585
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(4586)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (4225)...(934)
        <223> similar to gi5262574 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6737
ttttttttt ttctggctaa ttttgttttt taatgagaaa catctgagtt gtacatatca      60
caaacagctt caagtttctg taccaacccc ccagccccgc accccacgcc agtggccaaa     120
cagttaaaac ccaaagcaaa gcatcacgtt tggatgtgaa aaagtcttag aaaattaact     180
tacaaaaaca tcccttatca agtcggtagt ttggcattta ctttaccatt agtcagaaag     240
ctccagctaa aatctaattt ttttaaaaaa aaaatcgaag tttacattat tcatacagat     300
ttgggcattg ttaaaaaata tgcacaaata accacatcca tgcaatataa tttctttaaa     360
aatttaaagc aatataaaag agcagagcta ggtactgaac agaacatttt ggtgtataac     420
cggcagctca aaaattgcca gctgattgga gtaaaaactg attctaagcg tattaaatat     480
gattgattgt ttccatcagc taagggtgcc tatgagtttc tgaaccattt ctagggtgga     540
atgtgctcgc ttgcttctat aatatatgtg atggacacca ctgctcattg accataccta     600
cattataata atgctgtttt acaaacaaac cagaattcac aaagtgcttg gctcttcagg     660
aaactgacat ttccagagat ccctaaacta atcaactagt tctgccaaag tgcccggggc     720
acctgccaca caggttccct gctcctgggg aggaacacaa tctcaaacgc tgccctgggc     780
tccagggagc ccgtgctgtg taagcccaga agaagtctgc acaggtcccg ggaccttgcc     840
aacactaagt cactcagatt ggtctggggc cacgtgctgg gcacccttgg caatcaggca     900
ggtggtgtag cactgtggcc agctatgccc tctatgtggg gggtggccca ttggtgtacc     960
tcagcatggg gtaaaaggac cgggcaaaag ttgttggcct gagtgcagct gtagtcttct    1020
tcggaggagg gcagcaggca ggccaggagc agcagcagca ggaggagcag ctgcaggggt    1080
agggctgccc ggaccaccct tgagaggaag gagcgctgtg gccgtgtgct gccggggacc    1140
ctgctctctg tctcctcctc gccttctgta gttctcactg ctctgaactg ctttgctcgg    1200
ggagctggca cggatgttgc aggaggctgg tcccccgagt ctacctcgtc gaagctgggc    1260
aggggtgagg ctgggttctg ggttccctgc aaggccatta aatcttggga cacttgctcc    1320
cgtaactgtt tgagtttctt ctcaaataac atgcacctt tcttcagctt caatacagtc    1380
ttctccatgt cccttaatga gaaggctgtt tgaaatctcc tgtaacatgt ccacttgagg    1440
ttgacgttct accagctcct tttccagttg cattagttcc ctccgacact ctaggagagc    1500
ccgggggtct gcctttggat cggtgacatg agccttctgc ctccggttct tggcactcgc    1560
taaccacagc agcagatttt gactcaactg gtggaagtcc tggcactgca tgagcgactg    1620
tcgtaagccc cctctccagc tgtccactgc gccctgtgct gcttcccaga gcaggctcag    1680
```

5401

```
ctggcggagt ctactttgga gctctgtgga ttcggggctc tcggtttgca gaaattcctt    1740
gctgctcacg ttgacagaga ccactaatgc cttgtaagtg tcaaaggctt tcagtatctc    1800
ctgcagtctc ttcactctca gttctatttc ctggatatca gagggaggct ttgccatctt    1860
taacatttcc agctctgctt cagttttttt cagccaagta gtgatggcgc tgatatcaga    1920
gttcagctgt tgcaaatttt gtttattttt gagcttattg tgaaagctcc tgtgcttgaa    1980
tcatctccca tctgtcgaag gcacctgact gctgctctgt gataccggcc agtcccccgt    2040
cttcctgctg tgggttgcca ttcaggactc gcgggccttc tttgccacca tccgtgcctg    2100
gaggtaatag tagctttcca tagggtggtt tataaggggt gctggacgca gggggaacag    2160
gtggaacatt cctgtcacct tccatttgct tgtagtgatg ctcgggacag gaagggctgt    2220
cggaacatg ccacgagtgg ccatccgaaa tggatttacc tgacagtgcg cttgtagtat    2280
tgggcctcct cgtcctcttc cgtgagagga ggaggncccc ccacgtcgnc ttgtgtggtc    2340
ccactccagg gggatgggag tccacgctga caggggtctc gcagccagac cgctcgtgcc    2400
ctggggccac tagatgacac agggactgag gagatgacgg ttcctcgctc tctccccgtt    2460
tacgccaaga atcagtctgg atttctctgg ggtcttccat gtctgtttca ttctcagagg    2520
cctccttttc atcttccaag cccggagtgc aggaggtgag ccgccggtgg aaccgggaga    2580
cccttccaaa cacctcctgg cagtagcggt ggagttcctc cagctcatcc tcaatcagca    2640
cagcatccag ggggctcgct cttctgaatc agctgctccc caaacacaat gagctgatca    2700
atcttgttgg tatttaatgt aatttcctgt tgaaagccat tcagttggcg catcttgtca    2760
tcggcgtcac tctctgagaa gtgctccacg ttggtcagct gcaggtccat ctctgtgagc    2820
cacaccagaa tgctctccct ggtgccctca aattcttccc tctggttggt gaaatgcctg    2880
agtctccgca ggacggctgt gacccgcctc tgaaggttgt cccagcgctg gttgccctcg    2940
tggaccatct gcttcagcct gctggccgtg tctgtgcggt tctcccgggc cagccgccgg    3000
tactgcttgt tgatgagctc cagctgagtg agccgctcat gaatctgccg ctgaaaggcc    3060
tcaaacctct tcagttcctc tttggcactc gtgtacaaca cctctgagga atttgggcag    3120
gctgccgtcc tctcagctga cttgagccag tcctcaaagc gagaatagtc gtctaaaaac    3180
ttctgccaca ggcgccacgt ctcctcgatt ttcatgcgcc gctccatgga catggcacaa    3240
atgttcctcc agcgtctgtc caggctcctg gtggtctgct ggatcgagtc acactcggtc    3300
tcatttgcac aggcatcgga gtcgtgcagt aggacgtcac agatgttaaa cacggactcc    3360
acccctgcgc tgtgttgttc aatatctcgc tgtagatcct gctgctcagc gagcctcttc    3420
tggatctctt gatcatcgca gacatcataa acaacaggct tggaaagctc agactcaatt    3480
cgagccaacc aggtgcgaag gttgctcatg tttttgtcca actgctgaat aaaagcaaag    3540
gtctccttca gcttcttcac ccttgatccg atgacatcaa aaagatgttg ccaacgatcg    3600
ttaattttgt tgagcttgtc atcgatctca gctgctcttg atttgttgct ggccttgatc    3660
aactggtcac ccatctgctt taactgtaac ttgtttttcac taaacaagtt tatttcttcc    3720
atgcagtcct tctgtaactt ttcaatcatt tcttcaatac taatgtccgc tgtctgtaga    3780
actttgtttt ccatctgcac cagccaggca cacaactctt tattttttttc attgaataca    3840
acccatgtat tgagtctgtc ttcaatctcc tgtttacgta tggccaccct taagcagagg    3900
tcctcccatt gtctgtgcaa atgctctatt tgctccttca aaaccatcac atcttccacg    3960
agaacgtgcc gggttaagtc cgccttcata gtttgaagtt ctttcaagtt ctgagtccag    4020
ctagccaaag actgttctag ttccttaatc agctcttttt cgttatggag gtcctcgtga    4080
agctctggaa gaggatcttc actttgtgcc tttaaaactt gcagcctgct tttcaactcc    4140
ttgatttct tttcacactg gtcccaggtc tctacagtgc tctggaactg cttaatcatc    4200
tctgccagct ggggctccat gtctttccag ctgtcctgaa gttgactgat tctcctaccc    4260
acagactctt tagttttcag gtcagttgtg agcagtaact tttctccagc ttccaaggtt    4320
agggcacagg tagttcgcct cctttgaaaa tgaatttctt tattcttcag ctcatggatc    4380
agacttctgg tttggtatag gctgaagcgc tcctggccct tcactgcaga tagcaggtgg    4440
ctggtgtcag tgaggaagcg aaacaagttc tccacagaag tagtgaaatc ttgccactgc    4500
ctcaccagcc catcaacgtc acccttcctc tgccgaacac cctggacagc attctgccac    4560
cgatccgtca gctttgagaa ttctg                                          4585
```

5402

<220>
<221> misc_feature
<222> (1)...(1210)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (951)...(0)
<223> similar to gi205755 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6738
tttttttttt ttgacacaag actaattact ttattaggtg cattctataa gttgaagagg   60
agaatttttg gcaaataaat aaataaataa ataaataatc aaacagagac tctggggccc   120
gaggagctca ggaaaacgga agcggagtct ttgcatagtt ctaaatgaac aggaggtggc   180
agcagtaggc aacgcggatt ctcggcggaa atgcagcact tgcaaaaacc agggacagaa   240
ggctttgaga aagaggagaa ggtcagaagg tgactaacta tttctttttc gtagagacca   300
tggtgtggaa cattcgtcct ctctaccagg ggcaggatgc cgcgtcctac atgatctgcc   360
tgggcatccc gtaccctgtc atgcccgcct gggaggctcc cttgttgctg cccatctgca   420
ggcctattac gttctgtccc tggcgaagct gctcctcgga aaagcctctc cgattctgct   480
gggctttcct gtgaaaccag gatggctctc cccgatagca gccatcatcc ttggtgactg   540
caacgctgcc taaagccatc agggtcctct gcacagctgc catgtccttc ccttcccata   600
gatccaccgt ctgaaagatg tcggtggttc tgacaccata ggtctccgca gctttagga   660
actgggagat ttgctccatc tgcttaaaag ccatctttga ctctgagatc ttgggtatgg   720
gctcttgtcc tggtgggtat aaactattta tcagcttgca caggaccgtc ccgtccatta   780
accatttctg aaaatgggcc ctgccggggg gcgggtgctc tatgtcctcg cgcactgca   840
ggatgatcca gtccaccagc ttgttctcca ggtccgcatc atacttctgc tcgatcttct   900
cctgcacctc tcggcttaag ccatagctcg ggccctgtt agccatctaa tcaagtctga   960
accccaggc agcaagggg atgggtggcg gacgtttctt cccgcttctc agtagcactt 1020
tgcaaaggca gaaacgatga gatcgggaag agcaggtaat tagcaggcag ggaggaagcc 1080
tcctttcatg ttgaactgca gccgctgctg cctcgcgcct ggaagaatgg cacattgatt 1140
tgattttctc atggctgagt gggctcaacc agggccgttg ctaaganccc tcgtgccgaa 1200
ttcctgcag   1209

        <210> 6739
        <211> 2160
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (26)...(795)
        <223> similar to gi407468 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

5403

<400> 6739

```
ctcccggttc gacgatttcg tggcgcagcc gctgcccgag ccgcagccgc agccggagcc    60
cgagccgcgg ggcgggtgcg aagatgcaca cgacccagaa ggacacgacg tacaccaaga   120
tcttcgtcgg ggggctgccc taccacacca ccgacgccag cctgcgcaag tacttcgagg   180
tcttcggcga gatcgaggag gcggtggtca tcaccgaccg gcagacgggc aagtcccggg   240
gctatggatt tgtcaccatg gctgaccggg ctgctgccga aagggcctgc aaggatccca   300
atcccatcat tgatggcaga aaggccaacg tgaacctggc atacttagga gcaaaaccaa   360
ggatcatgca accaggtttt gcctttggtg ttcaacaact tcatccagcc cttatacaaa   420
gacctttcgg gatacctgcc cactatgtct atccgcaggc ttttgtgcag ccgggagtgg   480
tcattccaca cgtccagccg acagcagctg ccgcctccac cacccettac attgattaca   540
ctggagctgc atacgcacaa tactcagcag ctgctgctgc tgccgccgcc gctgctgcct   600
atgaccagta cccctatgca gcctctccag ctgctgcagg atatgttact gctgggggct   660
atggctacgc agtccagcag ccaatcaccg cagcggcacc tgggacagct gccgccgccg   720
ctgcagcagc tgctgccgct gcagcatttg gccagtacca gcctcagcag ctgcagacag   780
accgaatgca atagaccagc catctgatca aagttgaatt gttttctctt tccctcccaa   840
ttttccaatt tttagtagct aataagagag ttaacattga cttaacagct ttaaaaaaaa   900
aaacagccat gctattgtga agcagagtta ttattttggc aatactccag gtagtgttct   960
agatgagaaa gaggtaagaa tgaggggaat gggcacaatt ttgggaatca atcccaaaga  1020
gcctgagtaa atgaaaggcc actacgaaat gacgccagga gtaacaacgg aaccttcact  1080
tttgtaccgg gattaatatt tgtgctcttg ttatagtatc agggaagcaa actgcctttt  1140
acaagttaga aaatgctgtt tgaatctagt tgaaccaggg aatacagagc gagcaatatg  1200
tagcttgaat tacatttaaa agcagatttt ttacaaacaa aatggcgaaa gcactgattg  1260
tcatttttag cagtcactta aggcctatag aacttttttc aagtcggaag gtcctgttct  1320
tactatctca aaaatgggca tcgaacaatc aatctaggag cgtggcagtg ggtaaaatgg  1380
tggacaggca ccaaagctat tttctcatct gtcctgtgga tgagtggaac tgtggaacaa  1440
gtgatgtgga attaatgggt gcaacagctg tacagacaat caataacaca cacagttctg  1500
gaaagaacac atcacttgtg cttgtttgat gagcttgtca cattctaatc cctctcccca  1560
tcctgtttca attttgggaa acttgtatct gctggtgtca gcaattctga ttctgaaata  1620
ggatcaggct tttactacaa cagccttctc tttctattta ttgtgtcgac tcgtggctta  1680
tgaataaagg caggcaaagt ttgcagaact gtcttaagga catttatttt ttttcccttt  1740
ttaagtaatt ttacacttta gtatctattt cagagtcata tttaaaacta tttattagtg  1800
actacagtac atgagacaac aaggttactg agattacaat tcttcaaagg ttaatgataa  1860
tgtggtttat actgtgcctt aatagtaatg ctatttaaga tatttatttt taagtttac   1920
tatgctgcac tctaaagaaa ggaactttag atgtgacact gtaaaattat gtattcatct  1980
catggcataa attatttagt aagtctagat gtagcgtatt aaatattaac ctattcaact  2040
aaagatgttg acttgggatt tatttaaatt catatgtgca ctgtataaga gagtactctt  2100
acattaacac attttagttt agttttttaga ttttttttta aacgatatat tgctagtttc  2160
```

<210> 6740
<211> 1751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1680)...(602)
<223> similar to gi4929619 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6740

5404

```
gtatacattt tcccacaaaa tggttgtaaa gatttaagtt attttaattt aatgttgatt      60
aagaaccta  gatgaaactg gtcagaacct gtaaattact tagtttatat ccactttgag     120
caggtatcaa atgatttagg atccttaaaa ttacattcta ataattaagt tatgtggaaa     180
aagtaaggct ggggaagtcg tgattaatag ttttcaaagg gccatttttt aaaatcctct     240
gggcattttc tttcagctgt ttgttagttt ttgctttatt taaagcatat ttaagttatt     300
ttaatgtggt ttaggggcaa aatgtgcaga tacttcattt ttgtaagatt gtaatagatg     360
ctgtttatac taaacatgtc atatctatct atacagtata tattaaaaga aagcttgtac     420
tgtatcttat ttgatgatat ttattttctc tgccaagctg tatagtaaaa ggaaaataag     480
tcacatctgg tcattggcat ttgtatcgtc attctgtaaa gacaaaagag tacctatata     540
agaagctcca cgtagtgcaa atcgacatct ggtaggctgc tcgcccccag gcagcagcta     600
tgagtctgta attctctgcg tcatcctctt cttttttcttc atttttgctt tttcttcgct     660
tgagttcttc tctgaaatta tatgcaaaga gttgtggggt cttcatcaca cattttttctg     720
gtatacatca cagaggctcc ttaaaagtgt gaggatggga gagctggcgg ggccgaagga     780
gtaggggtct atgtctgccc aactctaaca agcctgcccc gtgctttcca aggcgctgcg     840
cttcagggaa taacattctg agccctcgat ggcagtattt ccttcggaac tgaaatacat     900
tctgaaccac tttttccacc agcttgaatg gctgctctat cttgggctgt atcaagggag     960
tgaagtgcac cacgcccacg tccaccttcg ttgtaagcaa acatattatc attctctggt    1020
ttggggacaa aagcttgtcc tggaattgta aagatgtgtc gaacattgca gaggtactga    1080
gccataacag agaggcgact acgctgtttg cttcctgtat tggctgcaag tctctctgcc    1140
acttcctttt gaaaagtcaa agtcatctga gttctgccat aaacaaaagg tccatctcta    1200
caggaaatat tttcaagcca cttgataatc agtggagttg aaacactaaa aggcagattt    1260
ccaataatat gtacatttgg aggatcatct tcccagggtc ttttaagact ttctgaaaaa    1320
gccttttcta ccttaaatgt caagacatct ccatgaacaa ttctcagttt cccaggtgct    1380
gcatcagaaa gcatctgtaa tccaggaata aatcgagtgt cctttcaac caccagaagt    1440
tcagcgacgt cggcattaag aatagatctt gtgattcccc ctggcccagg gcccacttcg    1500
taaacataag catttgtcag attgccagct ttccttacaa tcttatctgt cagcctcaag    1560
tccaggagga aattctgtga tagctgcttc gctgcttgca gtcttaacaa cttaatgatt    1620
tctcgaatcg tgggcaacgg agggagacgg caagtgctga gttttccgga ggcagccatg    1680
atacgcggca agcaccatcc acccctacct cacccaggac cttcaccgcc gctcccactt    1740
cagattgtaa c                                                         1751
```

<210> 6741
<211> 1459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (236)...(1461)
<223> similar to gi3713994 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6741
```
tttcgtgtcg gatgctgaga atgactgacg atgtgatgag gggcggattg aacgagtcac      60
aggccagctg gccaggagca aaatcggcat agctgtctga ctcgatggct gtacgtggtt     120
acggactgtc tgccctgata gaatctcagc ttcaacgtat cagaggagac tgacttgacc     180
aatggtgggg atgagtcgcc tgagaaatga cagactggct gacccactga caggtggctg     240
cagcgtgtgt tgcaagtctt cttggaatca gctgcaggac ctgtgccgcc tggccaagct     300
ctcctgccct gccctcggta tctctaagag gaacctctat gactttgaag tcgagtacct     360
gtgcgattac aagaagatcc gcgaacagga atattacctg gtgaaatggc gtggatatcc     420
```

```
agactcagag agcacctggg agccacggca gaatctcaag tgtgtgcgta tcctcaagca       480
gttccacaag gacttagaaa gggagctgct ccggcggcac caccggtcaa agacccccg        540
gcacctggac ccaagcttgg ccaactacct ggtgcagaag gccaagcaga ggcggggcgc       600
tccgtcgctg ggagcaggga gcttcaattg ccaagcgcag cattcttggg gacgcatcac       660
tgtagagaat gaggtggacc tggacggccc tccgcgggcc ttcgtgtaca tcaatgagta       720
ccgtgttggt gagggcatca ccctcaacca ggtggctgtg ggctgcgagt gccaggactg       780
tctgtgggca cccactggag gctgctgccc gggggcgtca ctgcacaagt ttgcctacaa       840
tgaccagggc caggtgcggc ttcgagccgg gctgcccatc tacgagtgca actcccgctg       900
ccgctgcggc tatgactgcc caaatcgtgt ggtacagaag ggtatccgat atgacctctg       960
catcttccgc acggatgatg ggcgtggctg gggcgtccgc accctggaga agattcgcaa      1020
gaacagcttc gtcatggagt acgtgggaga gatcattacc tcagaggagg cagagcggcg      1080
gggccagatc tacgaccgtc agggcgccac ctacctcttt gacctggact acgtggagga      1140
cgtgtacacc gtggatgccg cctactatgg caacatctcc cactttgtca accacagttg      1200
tgaccccaac ctgcaggtgt acaacgtctt catagacaac cttgacgagc ggctgccccg      1260
catcgctttc tttgccacaa gaaccatccg ggcaggcgag gagctcacct ttgattacaa      1320
catgcaagtg gaccccgtgg acatggagag cacccgcatg gactccaact ttggcctggc      1380
tgggctccct ggctccccta agaagcgggt ccgtattgaa tgcaagtgtg ggactgagtc      1440
ctgccgcaaa tacctcttc                                                    1459
```


<210> 6742
<211> 1542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1291)...(539)
<223> similar to gi5802176 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6742
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tttttttttt ttgaccaaaa aaggcaacta tatttaaagt aaatgtatgt gattcttgtc        60
acaacaaata tttgcatttt ctcagcggca gctgcgggac ctgggtggct ccgacacgcc       120
aggcccggga aggacccggc accctcccct gaacttcctg gctactcatt tccagcgaag       180
tttaatctat ttttaataat cgttcagttt tcaaggaaat ggaggagctg ttttttccca       240
cggagcggcg gccctgggag gggccgggcc cagaggttcc ggccgcgatg ccgtcagcgc       300
cttcggcaga gtgactgaag cgagatttcg ttcagcgcgt tgtactcgtt catggggtcc       360
atgtagctct ccagctcctc ggcggtcacg atgccgtcgt ggttggagtc aatgagctcc       420
tcaaactcct tttttcttgt ctttcaaccc agttgtcggt caatgtcctg gaccctgctg       480
gttctccacg gtgcccacgg gcaagggaga tgaactcggg cacagagagc tgcttgtcac       540
cgtcctggtc caggtcccgg acgatctcct tcaccatgaa cctgaagcat tcccccggct       600
gtgctcgggg tggaggaacg acaggaactc ctcctccgtc agcagcaggt ctgcaggggg       660
ggctgtccgc ctgggtacca gcggtccttc aggttctcca ggacttcctg tgtttcctcg       720
tccactttga gttcctcgtt gagcctgatg gcgtcggcaa cctccttctc gctatggcct       780
ttactcgcca aaaacttcac cttatactcg tcccaagaca cgtgaccgtc cccgtcaggg       840
tccacggcgc ggaagtgtgt cttgctctcc tccatggcct cctggaagtg ctcggccgtc       900
ttctccatga tccagcgctg catctccttg gcactgatct tccggtcagt gttcacatcc       960
accttggaaa agatgaccat cagcttcctc cggctccgcc gcggctccgc gtcctcatca      1020
aagccaccca ggtccttgcc taggaagacc tcctggtgga agccgcgatt gaggtgcccg      1080
tccatctcca gcttcacccc gttcaggtgg tctgggggca ggatctcatt ctcctccctg      1140
```

5406

```
ttggctactc tctctcgagt ggacgagtgg ttggcaggcc cgtgcagacg cgtccatcag    1200
aaggactgcc cccaggagcc agaggcagca cggagccagg ccaatgaggg gacccaccct    1260
ggacgccatc gccacccagg gccagaccat ggggcgggct gcagggtgtg ggccaggtgc    1320
tgggaggggc aggggcaggg gcagaggagg aagtgaggtc ctggctccaa tccaatcccc    1380
gggcaccacg gagggctctg tgtccccagg acggccgcag gatggggaca agcagctcac    1440
agtcggtctg cctccccgcg ctcgggatcc gaggaccgga gcgaagcgtc agtgacgccg    1500
ccaacgggcc cggatcaggc cactgccatc tttcttgcgt gc                       1542
```

<210> 6743
<211> 5830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (155)...(1655)
<223> similar to gi4160197 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

        <400> 6743
```
cggccgcggc gacagctcca gctccggctc cggctccggc tccggctccg gctcccgcgc      60
ctgccccgct cggcccagcg cgcccgggct ccgcgccccg accccgccgc cgcgcctgcc     120
gggggcctcg ggcgcccccg ccgcccgcct cacgctgaag ttcctggccg tgctgctggc     180
cgcgggcatg ctggcgttcc tcggtgccgt catctgcatc atcgccagcg tgcccctggc     240
ggccagcccg gcgcggggcgc tgcccggcgg cgccgacaat gcttcggtcg cctcgggcgc     300
cgccgcgtcc ccgggcccgc agcggagcct gagcgcgctg cacggcgcgg gcggttcagc     360
cgggccccc gcgctgcccg gggcacccgc ggccagcgcg cacccgctgc cgcccgggcc     420
cctgttcagc cgcttcctgt gcacgccgct ggctgctgcc tgcccgtcgg gggcccagca     480
gggggacgcg gcgggcgctg cgccgggcga gcgcgaagag ctgctgctgc tgcagagcac     540
ggccgagcag ctgcgccaga cggcgctgca gcaggaggcg cgcatccgcg ccgaccagga     600
caccatccgt gagctcaccg gcaagctggg ccgctgcgag agcggcctgc cgcgcggcct     660
ccagggcgcc gggccccgcc gcgacaccat ggccgacggg ccctgggact cgcctgcgct     720
cattctggag ctggaggacg ccgtgcgcgc cctgcgggac cgcatcgacc gcctggagga     780
gcttccagcc cgtgtgaacc tctcagctgc cccagcccca gtctctgctg tgcccaccgg     840
cctacactcc aagatggacc agctggaggg gcagctgctg gcccaggtgc tggcactgga     900
gaaggagcgt gtggccctca gccacagcag ccgccggcag aggcaggaag tggaaaagga     960
gttggacgtc ctgcagggtc gtgtggctga gctggagcac gggtcctcag cctacagtcc    1020
tccagatgcc ttcaagatca gcatccccat ccgtaacaac tacatgtacg cccgcgtgcg    1080
gaaggctctg cccgagctct acgcattcac cgcctgcatg tggctgcggt ccaggtccag    1140
cggcaccggc cagggcaccc ccttctccta ctcagtgccc gggcagcagg caacgagatt    1200
gtactgctag aggcgggcca tgagcccatg gagctgctga tcaacgacaa ggtggcccag    1260
ctgcccctga gcctgaagga caatggctgg caccacatct gcatcgcctg gaccacaagg    1320
gatggcctat ggtctgccta ccaggacggg gagctgcagg ctccggtga gaacctggct     1380
gcctggcacc ccatcaagcc tcatgggatc cttatcttgg gccaggagca ggataccctg    1440
ggtggccggt ttgatgccac ccaggccttt gtcggtgaca ttgcccagtt taacctgtgg    1500
gaccacgccc tgacaccagc ccaggtcctg ggcattgcca actgcactgc gccactgctg    1560
ggcaacgtcc ttccctggga agacaagttg gtggaggcct ttggggggtgc aacaaaggct    1620
gccttcgatg tctgcaaggg gagggccaag gcatgagggg ccacctcatc cagggcccct    1680
cccttgcctg ccactttggg gacttgaggg gggtcatatt ccctcctcag cctgcccacg    1740
cactggcctt ccctcctgcc ccactcctgg ctgtgcctcc catttcccct cacctgtacc    1800
```

                                  5407

```
cacacctcca gaatgccctg ccctgcgagt gtgtcccctg tccccacctg agtggggagg    1860
agcgtctcaa gtgaacagtg ggagcctgcc cacctggcac tgcactggag ttgtctctta    1920
ccccaccctc cctgcccatc aactgtatct gatttcacta attttgacag cacccccagt    1980
agggtaggat tgtgtatgag ggggacccca ctatctcagt ggtggggggtg gccgcccgcc    2040
cccttgtccc ccatgcaaca ggcccagtgg cttcccttc agggccacaa caggctgtag    2100
aaggggatga cgaggacatc agaggttaga cttaccctcc tccctctttc caccagctgc    2160
cagtcaaggg cagtgggatc tcgatggagc ctccccccccc ccacccatgc ctccctcttc    2220
ctcctctttc ctcctctctt tgtgtgtaac ggtttgaatg ttggttccat gcctggccca    2280
accccacctc agtctccagg acattccttt cccagctcca gcctggaggg aagggacaa    2340
agaccccagg aggccaaagg gctgcagtca ccccttgtgc tcacccatag tgatggccac    2400
tggtatagtc atcgctctcc ctccatgcca aggacaggac ttggaccgct tcagcctggg    2460
ctgggagcag ccctaaggta gaggcctcat ggcccaggag accccacctc tggcagagcc    2520
acattaccta ccctgtgcat ggtcctgggg cagcaaggaa gaagctcaga gggtgggggag    2580
aagcatgaag cagtgagcag agcactgggt gagagggaga agaccttggt tcctagccag    2640
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tcattcgtga gctgaggccc tcgctttggt catttgctct ccagattggg tgtgagcttc    2760
tctgtgattc caggtggata tgtggggaaa gctctggtga ccctgggctt cgcagggtgt    2820
agatcccagg actcggcagt ggatgggatg cagccagtca tgggttaggg tcagcagaga    2880
ctcagagtcc agggcaaggt tcaaggcaga ctaacctcat gcatggattg taaaaaacca    2940
gctccctttg gatcaaccca gcctggcacc cttgcctgtc tgagagtgtc tcaaagggct    3000
gatggcttcc tggtccccctt gagtcatcac cagcttcccc aagagagtgt cagaatctta    3060
agagctgaga ggccgggcac ggtggctcac gcctgtaatc ccagcacttt gggaggctga    3120
gacaggcaga tcacttgagg tcaggagttc gaggtcagcc tggccaacgt ggtgaaaccc    3180
catcttcact aaaaatacaa aacttaactg gttaggtggt gcatgcctgt agtcccagct    3240
actcgggagg ccgaggcaga agaatctctt gaactgagga ggtggaggtt gcagtgagcc    3300
gagatcacgc cattgcactc cagcctgggc aacagagcaa gactccatct caaaaaaaaa    3360
taataataat cttaaagatg agaaaagcca ccccatctgg caccacagct gcatcttgct    3420
tgtgagaaat ggggaagagt tcagggagga cacgtgacct gcacaggatc acagagcatg    3480
gggcagagcc aggactagag ctcagggcat ctgactccct cttcagtgtt cttccccctc    3540
catgttgcct gcccctgaag acctttgagt tcagtctaca cctaagcagg tagacatccg    3600
cgaagtcaga tgctttccaa catgacacct gaacatcttc ctttatgcaa cacccaaaca    3660
tcttggcatc cccaccccag gaagtgcggg gaggaggtta tgatccctgg gcgcttcggc    3720
agaatggaga gctgaggtgt ccctcccctg ctagtcacct accaggtgtc tgagcagctg    3780
catgctccct ggctcaagtg ggcactgtac cttttgcctg cctttttgtt ccctatctcc    3840
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gccatggaag ctactccaag ttgcattgcc tcccgcgccc agatcctgct ttccatttcg    3960
agaacataaa tagattgccc agcccctcca gtacaatccc actggaagaa aaggcaatgg    4020
cgggcttcag ccagacctgc tgagacctag gttgccacgg taacagccaa agacatcaac    4080
ccaagtgctg ggtcaagtgt ctcatcatac tggcactgtt gctggggtga cggcagaatt    4140
cagaacttca atttcagtga cgccaagctt gatgtgtttc tgttattgtt ttgaagaagg    4200
tagctcttgt ggaggacttg ggagaaggat ggggtcttag gaaggaggtg acagcacttg    4260
catggtcact tgagcccaca cacacgctca accccaagtc ctttatgctt tgtcacagtg    4320
aagatgagac ctctgacgtc caagccttgt tcctgtgctg catcacccac tcagccttcc    4380
aaagggaaca ggaacaaatt tccccagcac cactgtttgg gtcccgcttt tcctatcttc    4440
tgctgcccct gagcacatcc aagcagacag ggaaagagga gtcagacatg gcccagtcac    4500
atcctgagct gctcctggct gataaccacg atggagcccg tgtttgtcct gccatctggc    4560
actgcactga gtgtggcaca ggcaccgtcc tgttgatctc acaacacagt tctaagttag    4620
gacgttcttg gctccgttag acaggtgagg aaactggggc acagagaggt gatgtcatct    4680
gcctggtgtc aatcagctag caagtgatgg agcccagatt tcaaaccaaa gggggttacg    4740
tccaggggct gagttcccac tcacctgtgt agagtgccat ctgggcacca ttgctccaga    4800
cgtgttccga ccccttttcc agcccacagg gcttgaagtg aaggaacaga ggcaggggt    4860
gggccagccc caggccagg gtccccttgg tgaagccgtg ccaggggct cagctgcttc    4920
agggaatgtg tccctcccac catgggccag agcttcagcc cttctttagc tcagctagag    4980
ttcacaggag agccaaaaaa gaaaaggaag ctgagcatct cccgagtcct gggcagggaa    5040
ggggagggaa attgctgctt ctccaactct tgcttggggc caagccctgc accagttgct    5100
tcccagctgt tatctgccag atcttcccat cttgtggcat gtggtgcccc caccaacatc    5160
ccaaggggac caatcccctt gccaccactt tgcatcacct gggaccacag atttggacag    5220
```

5408

```
gaagggctct gagaagaggc caaagccctc attttacaga tgaggaagct gaagcccggg      5280
gaggggagcg accctcaagg ccacccagct ggacacggga gacttgagcc cagccttctg      5340
actgcattca gccctctcta ggacgcagca gcctctcccc agcactgagt ccccctccc       5400
tttgtgtgtc ccagcaccct tggcctgagt aaacttggaa aggggctccc tcccagagaa      5460
gggactactc tcttcacccc tttattccag ctgccctggc caccccagac ccccacctcc      5520
caccctgacc cccgacccct gggtggggaa ggggctcaca tgggccccag gcctgaagtg      5580
tgaagtgaag catgtccaag ttgtctgaac actgtgacat tagtgcaccc ctactgaaca      5640
acccctcccc agccttgccc ctttctcctc tccctgtttt gtacataaat tgacatgagc      5700
tgcaacatgt gtgcgtgtgt gtgcgtgtgt gtgtgtgtgt atgtgtgtgg tgcatctgtg      5760
tcaatggttt tgttaccttt ttgtttttgt aaacttgaat gcttcaaaat aaacatgctg      5820
tttactctga                                                              5830
```


<210> 6744
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (903)...(276)
<223> similar to gi4929729 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6744
```
tttttttttt ttaggtgttt aatatttatt tatttagttc ataaacaggc actgccacct        60
ccagtgttca tccatggcac tttcatgacc gcttcctgtt ctgtggcttc ttttagtgcc       120
caagttgtat cacatttctt gctgaagttc agacaattga aaacaaacag actcacatct       180
agggaaatca acagaccaac aatggcaaaa cacaatacaa tgaaatggaa aaataatgtt       240
tgttacagga gtgcagcaat ttagagagtg tctcaggagt gtggctcact ggcagctgca       300
gctatgttag tgcttctttc tgcctcaagt tcagaaacaa gctggactat ctcagggtga       360
ttgaattttc ctgctgtgga atcatagaag tcttgcagtc tcccaggttt gtgttcaagg       420
tcttcatatt cagatgcttg aagaatcatt tcacattggt ctagctgctt cacaaatttg       480
gcttctgcac tagattgggt ctcgtactcc atatatactt acttcccaaa gttcatagag       540
ctcctttctg aggtcctctg gtaggagctg ggttatctgc ttcatagctt cctcttctcg       600
cctatgtttt tcttctttgg ggatgttatc tgctggtgct atgtccccaa cgatgcattc       660
tgccatatca tgaaccaggg ctaggcgtac acatcggtct ttgttaagac ggtcatcttt       720
gatcaccata gccataactg ccatccggta catgtgatct gaaacgctct ccggcctctg       780
gacatttctg tatacccagc cagttcgtgg gactctcttg agctgcccta ccagccgcag       840
gaactgcagt agggaccgag ccccgtggcc cgagaaggtc gcagaggaga ccgaagccat       900
gcggccaccg accccggctg ggcggagcag gccgcggcga agctcctccc cgtcctcctc       960
ctcctcccct tcccttgtc tttcttcccc ctcctcttac tcttctatct ctttcacgaa      1020
a                                                                      1021
```


<210> 6745
<211> 1209
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (196)...(1099)
<223> similar to gi4239974 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


        <400> 6745
gaattcccgt gtcgacgatt tcgtgagcgc ggcagcccgc gcagccggtg actgggggac    60
tgggtttgga gtaggacctg cggcgtgctc gagactccga cttcggtctt gcggcgcgct   120
cgcgcccgcg ggccatgccc cactgactct aagtgggcac tgccccggct ccgggagggc   180
gagaccgagc gccggccatg ggaagcttcc agctggaaga ctttgcggcg ggctggatcg   240
gaggtgcagc cagtgtcatc gtcggccacc ctctggacac agtcaagact cgcctgcagg   300
ctggcgttgg ctacggaaac accctcagct gcatccgcgt ggtgtacagg agggagagta   360
tgttcggctt cttcaagggc atgtccttcc ccctcgccag cattgccgtc tacaactccg   420
tggtgtttgg ggtcttcagt aacacgcagc ggttcctcag ccagcaccgc tgcggggagc   480
cagaggccag tcctccccgc acgctgtcag acctgctcct ggccagcatg gtggccggcg   540
tggtctctgt cgggctggga gggcccgtgg acctcatcaa gatccggttg cagatgcaga   600
caccacccgt ttcgggacgc caacctcggt ttgaagtcca gggcagtggc tcctgcggag   660
cagccagcat accaggggcc agtgcactgc attacaacca ttgtgaggaa tgagggcctg   720
gcggggctat accggggggc cagtgccatg ctgctgaggg atgtcccagg ctattgcctc   780
tacttcatcc cctacgtgtt cctgagtgag tggatcacac ctgaggcctg cacaggcccc   840
agccctgtg ctgtgtggct ggcgggcggc atggcaggag caatttcttg ggggacagcg   900
actcctatgg atgtcgtgaa aagtcgactc caagctgatg gggtttattt aaacaaatat   960
aaaggtgtcc tggactgtat ctcccagagt taccagaagg aaggtcttaa agtgttttc   1020
agaggcatca ctgtgaacgc ggtgcggggc ttccccatga gtgcggccat gttccttggg  1080
tacgagctgt cgctgcaggc tatccgcggg gaccacgcag tgacgagccc ataagcgcca  1140
ggtctttgct caggctgtcc cctctgcctg acatcctctt ctcgctcctt tcctacttgt  1200
ccttggctt                                                          1209


        <210> 6746
        <211> 3138
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2906)...(2172)
        <223> similar to gi5262555 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 6746
tcagaattac tccagtgtgt gggttggcag gttgtagaaa gtggcactgc ccctactgtc    60
tctgagacca gaggggtttt cagtgctttg ccgggccaca gccagagaca ggatgagccg   120
gggtcaagtt tctgtaaact aaacagtcat ggcagcaagg tccaacttta gaaacaaaag   180
ttcattttca ggttctttat gacactgtag gacaatacaa cacattttga agtcggaccc   240

```
aatgtttgtt ttctactata tgaaatcagg acataagatg ctgcttgcta ataccagctg     300
ttacaagaag acagagttgt cgccatgaaa taaagctctc taggaagcac acagaaataa     360
aaaggtcacc atgcatacca agaacaaccc atcagtcaat aaactaaaca ctttggaaat     420
aaaaacttaa cacatcattt cattttgtta aaaataaaac gtatcactaa tctgtgagtg     480
tcttgttctg tcacaatggg cattgtgata aatcagggtt tctcaatctc ggcactactg     540
atattttggg gtggatgatt ctttgctgtt gtaggatgtg ctgtgcatgg tagaatgttt     600
ggcagcattc ctggcttgta gtagcacccc caagtcatga caatgaaaac tgtcaccaga     660
cattttgaa tgtccctggg gtggagtcag ggggcaaaat cacctcctgg ttgagaatga     720
ttgcaataca cagataccta caaagaggaa caattctttc tcaaaattta ttgtgcagaa     780
ttttaagact atacccaggg ttgctcattt attaaagcaa agacttagta aggtaagtgt     840
gtgggaagaa taaatggatt aatcatagtc tgtttcctat gaaaatgcct cgttgagtaa     900
ttgcagatag actagtgcct ctttttttgtt ttgttttgtt tttaaacatt ttacagccat     960
tatccaacag acagtaaagc agtggaccag ttgctgtgtg ggtataaagc aaacggtctc    1020
tgggctcctc caagctgtgg atatctctgg ccattatcaa tagctgattc tcacttgtcc    1080
taatgaagta ctcagtgcag gttagcctcc ttctcccccg ccagcttctc ttccacttcc    1140
ccacaccgta catgcctctc cctttctctc tataactcag ctcatctcat agccttttttc    1200
tttggaaatg caactctgct gatcacttgt gggctgggat cccagctgcc ttttgaacag    1260
agcagacatc ctttacagag acaggtggcc tggaggggag aacaggtagg ggcacactga    1320
gatcccacag caacctgaga gattctgccc cgtgacctgc tggcccccctc cagggcactt    1380
cctattttca tctttcatta attaggcagc taagaagctg ctttccagct tgtagagcca    1440
agcaggcagc atcctgtcag aaacaaccag ataaatagag attaaaaagg aatctgagaa    1500
aaccctgctc tctcccatgc agggtgaaat cctcgtagag ctcatttcct ttccccctcat    1560
taatacttaa tgtaatttcc taaatagaag tttaagaaat aacacaaatg aaatgttccc    1620
ctgaaagtaa cccctaacaa aacaacccaa atcctcctcc tcggtccttc tcaaagtggg    1680
tcctgcagtg gggaaagaag ccttcaccat ggtggtctgg cctggctggt gcaaggctgg    1740
cccacttcag ctgcaaatca gcctccactc acctttaaag aatggttctt cttgtaccag    1800
aaaggggaag ttgtagcagc cagaggagag ggaggaaaac aaaaccaccc ataccaacaa    1860
aacagggctt aagattgtcg ttcaatgcgc atcaggtact tattaattct actggataag    1920
cacttataaa taaagaacag ttaatcctca tcccaggcca tattccattg ttaggagtca    1980
tcgtacagag ggttgttgta gtttccccag gacccgtagt catggtcgtc caaaagtctt    2040
ccataggagg aatgcctgat ttttaggtag gctgcaactc caaacaccag cagcaccacg    2100
gcaatgactg tcacggtaat ggcggcgatg ctgcctgaac ttaatgcatg ttctacttcc    2160
tgcatgatca ccctgggaaa ggtggtggtg gtctccatgt ctatgagctc acacatcact    2220
ttgcctgaca cagttgttgg gggtgttttc tcctggggta ctggctcagc tgtggcatgt    2280
gaagtgggtg tgtggtcaga gctggactcc tctgtcgggg actctggtgc agttggagct    2340
ccagtgggtt gggtgctggt cacagtggag ctatggttgg tagtaacgga ggcagaaaag    2400
acctcaggtg gtgaggttga tagggatgag ggtgatgagg ctggagcttg aggggagatg    2460
agtgtgggag gctcagcagc ggactgcgac agtgtagctg ccacgcctgc ttcaggagtg    2520
cccaagctgt gttcctccaa cgtggttgtt aagtggactc caccgcttgt tgacgagaac    2580
ccagaaggtg aggggtctgt gtttgtgcct tcccaattcg aacctgggct ggtgatctcc    2640
tcttctctgg actctatgga aatgttctta ggaagcagag atgttggggc tgatgctgta    2700
actgggagca ccgagttgtt gtgagtgccg ttggatgggg aggcagtgtc tgcatcagtg    2760
ttttgtggag agctagtcca gatggtggtc ggtggtacaa tgtttgtcgg aagagaaaca    2820
gacaaaggag ctgatgtagg cagactctgt accctccatc ctgcagttaa gatgcaaaga    2880
gcgaagagag tcttgtagac catggtagcc tggtatttgg tgcccagccc ggggcgggcg    2940
gcaaggagtt tgcggactga cagagcgcac tgggcgctgg tagcgactcc tctgccgggt    3000
gggctgcggt gggagccggg aggcgcgaac agctccagtg gagggcgcga ggcaaacgag    3060
gcgaacgcag cgcagctccg tcagctgcgt gccctccggt gctccgcgct cttccgctcc    3120
atcccagccg ccacgaaa                                                   3138
```

<210> 6747
<211> 5944
<212> DNA

5411

<220>
<221> misc_feature
<222> (1)...(5945)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (47)...(4148)
<223> similar to gi804990 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6747
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ctggccgacg agtggagaaa tctgcgggcc aggcatcgac atccgcaacg actatcagca   180
gctgaagcgc ctggagaact gcacggtgat cgagggctac ctccacatcc tgctcatctc   240
caaggccgag gactaccgca gctaccgctt ccccaagctc acggtcatta ccgagtactt   300
gctgctgttc cgagtggctg gcctcgagag cctcggagac ctcttcccca acctcacggt   360
catccgcggc tggaaactct tctacaacta cgccctggtc atcttcgaga tgaccaatct   420
caaggatatt gggctttaca acctgaggaa cattactcgg ggggccatc aggattgaga   480
aaaatgctga cctctgttac ctctccactg tggactggtc cctgatcctg gatgcggtgt   540
ccaataacta cattgtgggg aataagcccc caaaggaatg tggggacctg tgtccaggga   600
ccatggagga gaagccgatg tgtgagaaga ccaccatcaa caatgagtac aactaccgct   660
gctggaccac aaaccgctgc cagaaaatgt gcccaagcac gtgtgggaag cgggcgtgca   720
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cttctgctca gatgctccaa ggatgcacca tcttcaaggg caatttgctc attaacatcc 1140
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cgggctacgt gaagatccgc cattctcatg ccttggtctc cttgtccttc ctaaaaaacc 1260
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tgacggggac taaagggcgc caaagcaaag gggacataaa caccaggaac aacggggaga 1500
gagcctcctg tgaaagtgac gtcctgcatt tcacctccac caccacgtcg aagaatcgca 1560
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tttactacaa ggaagcaccc tttaagaatg tcacagagta tgatgggcag gatgcctgcg 1680
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gcaccaatgc ttcagttcct tccattccct tggacgttct ttcagcatcg aactcctctt 1920
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agaaccccaa gactgaggtg tgtggtgggg agaaagggcc ttgctgcgcc tgccccaaaa 2160
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tggccaacac caccatgtcc agccgaagca ggaacaccac ggccgcagac acctacaaca 2340
tcaccgaccc ggaagagctg gagacagagt accctttctt tgagagcaga gtggataaca 2400

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ctatgcccgc agaaggagca gatgacattc ctgggccagt gacctgggag ccaaggcctg   2580
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acaggaagta tggaggggcc aagctaaacc ggctaaaccc ggggaactac acagcccgga   2760
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aggccaaaag atatgaaaac ttcatccatc tgatcatcgc tctgcccgtc gctgtcctgt   2880
tgatcgtggg ggggttggtg attatgctgt acgtcttcca tagaaagaga aataacagca   2940
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tgtacgttcc tgatgagtgg gaggtggctc gggagaagat caccatgagc cgggaacttg   3060
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agtttctcaa cgaagcttct gtgatgaagg agttcaattg tcaccatgtg gtgcgattgc   3240
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ctccaagcct gagcaagatg attcagatgg ccggagagat tgcagacggc atggcatacc   3420
tcaacgccaa taagttcgtc cacagagacc ttgctgcccg gaattgcatg gtagccgaag   3480
atttcacagt caaaatcgga gattttggta tgacgcgaga tatttatgag acagactatt   3540
accggaaagg agggaaaggg ctgctgcccg tgcgctggat gtctcctgag tccctcaagg   3600
atggagtctt caccacttac tcggacgtct ggtccttcgg ggtcgtcctc tgggagatcg   3660
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aagctgcccg agccggagga gctggacctg gagccagaga acatggagag cgtcccctg   3960
gacccctcgg cctcctcgtc ctccctgcca ctgcccgaca gacactcagg acacaaggcc   4020
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tacgcccaca tgaacggggg ccgcaagaac gagcgggcct tgccgctgcc ccagtcttcg   4140
acctgctgat ccttggatcc tgaatctgtg caaacagtaa cgtgtgcgca cgcgcagcgg   4200
ggtgggggggg gagagagagt tttaacaatc cattcacaag cctcctgtac ctcagtggat   4260
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ggaaaaataa ttgccacaag tccagctggg aagccctttt tatcagtttg aggaagtggc   4560
tgtccctgtg gccccatcca accactgtac acaccgcct gacaccgtgg gtcattacaa   4620
aaaaacacgt ggagatggaa atttttacct ttatctttca cctttctagg gacatgaaat   4680
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aaatcctgaa ctttctccct catcggcccg gcgctgattc ctcgtgtccg gaggcatggg   4800
tgagcatggc agctggttgc tccatttgag agacacgctg gcgacacact ccgtccatcc   4860
gactgcccct gctgtgctgc tcaaggccac aggcacacag gtctcattgc ttctgactag   4920
attattattt gggggaactg gacacaatag gtctttctct cagtgaaggt ggggagaagc   4980
tgaaccggct tccctgccct gcctccccag cccctgccc aacccccaag aatctggtgg   5040
ccatgggccc cgaagcagcc tggcggacag gcttggagtc aaggggcccc atgcctgctt   5100
ctctcccagc cccagctccc ccgccccgcc cccaaggaca cagatgggaa ggggtttcca   5160
gggactcagc cccactgttg atgcaggttt gcaaggaaag aaattcaaac accacaacag   5220
cagtaagaag aaaagcagtc aatggattca agcattctaa gctttgttga catttttctct   5280
gttcctagga cttcttcatg ggtcttacag ttctatgtta gaccatgaaa catttgcata   5340
cacatcgtct ttaatgtcac ttttataact tttttacggt tcagatattc atctatacgt   5400
ctgtacagaa aaaaaaaagc tgctattttt tttgttcttg atctttgggg atttaatcta   5460
tgaaaacctt caggtccacc ctctcccctt tttgctcact ccaagaaact tcttatgctt   5520
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cggggcaccc catcctgagg aggggggccgc ggttccttttt cccccaggcc tggccctcac   5760
agcatttggg agcctgttta cagtggcaag acatgataca aattcaggtc agaaaaacaa   5820
```

5413

```
aggttaaata tttcacacgt ctttgttcag tgtttccact caccgtggtt gagaagcctc    5880
accctctctt tcccttgcct ttgcttangt tgtgacacac atatatatat attntttaa      5940
ttct                                                                  5944
```

<210> 6748
<211> 1201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)...(962)
<223> similar to gi2916802 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6748
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gaggaatcgc tggtcgccag cgaggggtgc ggcttcaatt tcaataactt tattggtggc      60
ctgatctgca gaacagccat cacatcagtg gcccttggag gagggagcgc atcgcccgag     120
gtggtccccg acgagctgca gccatgggaa acaccaccag cgaccgggtg tccggggagc     180
gccacggcgc caaggctgca cgctccgagg gcgcaggcgg ccatgccccg gggaaggagc     240
acaagatcat ggtggggagt acggacgacc ccagcgtgtt cagcctccct gactccaagc     300
tccctgggga caaagagttt gtatcatggc agcaggattt ggaggactcc gtaaagccca     360
cacagcaggc ccggcccact gttatccgct ggtctgaagg aggcaaggag gtcttcatct     420
ctgggtcctt caacaattgg agcaccaaga ttccactgat taagagccat aatgactttg     480
ttgccatcct ggacctccct gagggagagc accaatacaa gttctttgtg gatggacagt     540
gggttcatga tccatcagag cctgtggtta ccagtcagct tggcacaatt aacaatttga     600
tccatgtcaa gaaatctgat tttgaggtgt tcgatgcttt aaagttagat tctatggaaa     660
gttctgagac atcttgtaag agacctttcc agctcacccc cagggcctta tggtcaagaa     720
atgtatgcgt ttcgatctga ggaaagattc aaatccccac ccatccttcc tccttatcta     780
cttcaagtta ttcttaacaa agacactaat atttcttgtg acccagcctt actccctgag     840
cccaaccatg ttatgctgaa ccatctctat gcattgtcca ttaaggacag tgtgatggtc     900
cttagcgcaa cccatcgcta caagaagaag tatgttacta ctctgctata caagcccatt     960
tgaagggatc ccttcttgcc tctaaggatt caggagaagc atctcccttg catttctgga    1020
ctgaaccagt cttacctgag actggaaggc tgatttgctt tgaggctgat atgtgtgttt    1080
cagagcctct gagtaggatg ctctgctttt gcatttgatt gcagatgaga gctttatgag    1140
ttcacggaat ttattttaag aaaaaaaaat atacatatga gaagaaggta aatggaaaaa    1200
a                                                                    1201
```

<210> 6749
<211> 2026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)...(1028)

5414

<400> 6749

```
cttcgtgtga gaccctcgcg aggtctgaga gtcactggag ctaccagaag catcatgggg    60
ccctggggag agccagagct cctggtgtgg cgccccgagg cggtagcttc agagcctcca   120
gtgcctgtgg ggctggaggt gaagttgggg gccctggtgc tgctgctggt gctcaccctc   180
ctctgcagcc tggtgcccat ctgtgtgctg cgccggccag gagctaacca tgaaggctca   240
gcttcccgcc agaaagccct gagcctagta agctgtttcg cggggggcgt cttttggcc   300
acttgtctcc tggacctgct gcctgactac ctggctgcca tagatgaggc cctggcagcc   360
ttgcacgtga cgctccagtt cccactgcaa gagttcatcc tggccatggg cttcttcctg   420
gtcctggtga tggagcagat cacactggct tacaaggagc agtcagggcc gtcacctctg   480
gaggaaacaa gggctctgct gggaacagtg aatggtgggc cgcagcattg gcatgatggg   540
ccaggggtcc cacaggcgag tggagcccca gcaacccct cagccttgcg tgcctgtgta    600
ctggtgttct ccctggccct ccactccgtg ttcgaggggc tggcggtagg gctgcagcga   660
gaccgggctc gggccatgga gctgtgcctg gctttgctgc tccacaaggg catcctggct   720
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acatatcagg ggacattagg attggggaag acacttgact gctagaatca gaggttggac  1320
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accctgccac ttggagtgga cccctcctac tcttcttagc gcctacccctc atacctatct  1500
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cttctctggc ctctccagtc ctgcttactc ctctattttt aaagtgccaa acaaatcccc  1620
ttcctcttc tcaaagcaca gtaatgtggc actgagccct acccagcacc tcagtgaagg  1680
gggcctgctt gctctttatt ttggtcccgg atcctggggt ggggcagaaa tattttctgg  1740
gctggggtag gaggaaggtt gttgcagcca tctactgctg ctgtacccta ggaatatggg  1800
gacatggaca tggtgtccca tgcccagatg ataaacactg agctgccaaa acatttttt  1860
aaatacaccc gaggagccca aggggaagg gcaatgccta cccccagcgt tatttttggg  1920
gagggagggc tgtgcatagg gacatattct ttagaatcta ttttattaac tgacctgttt  1980
tgggacctgt tacccaaata aaagatgttt ctagacaaaa aaaaaa          2026
```

<210> 6750
<211> 2026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)...(1867)
<223> similar to gi180357 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6750

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caacggacgg acgccatgag ggctctgctg ctcctggggt tcctgctggt gagcttggag      60
tcaacacttt cgattccacc ttgggaagcc cccaaggagc ataagtacaa agctgaagag     120
cacacagtcg ttctcactgt caccggggag ccctgccact tccccttcca gtaccaccgg     180
cagctgtacc acaaatgtac ccacaagggc cggccaggcc ctcagccctg gtgtgctacc     240
acccccaact ttgatcagga ccagcgatgg ggatactgtt tggagcccaa gaaagtgaaa     300
gaccactgca gcaaacacag cccctgccag aaaggaggga cctgtgtgaa catgccaagc     360
ggcccccact gtctctgtcc acaacacctc actggaaacc actgccagaa agagaagtgc     420
tttgagcctc agcttctccg gtttttccac aagaatgaga tatggtatag aactgagcaa     480
gcagctgtgg ccagatgcca gtgcaagggt cctgatgccc actgccagcg gctggccagc     540
caggcctgcc gcaccaaccc gtgcctccat gggggtcgct gcctagaggt ggagggccac     600
cgcctgtgcc actgcccggt gggctacacc ggaccttct gcgacgtgga caccaaggca      660
agctgctatg atggccgcgg gctcagctac cgcggcctgg ccaggaccac gctctcgggt     720
gcgccctgtc agccgtgggc ctcggaggcc accttaccgg aacgtgactg ccgagcaagc     780
gcggaactgg ggactgggcg gccacgcctt ctgcaggaac ccggacaacg acatccgccc     840
gtggtgcttc gtgctgaacc gcgaccggct gagctgggag tactgcgacc tggcacagtg     900
ccagacccca acccaggcgg cgcctccgac cccggtgtcc cctaggcttc atgtcccact     960
catgcccgcg cagccggcac cgccgaagcc tcagcccacg acccggaccc cgcctcagtc    1020
ccagaccccg ggagccttgc cggcgaagcg ggagcagccg ccttccctga ccaggaacgg    1080
cccactgagc tgcgggcagc ggctccgcaa gagtctgtct tcgatgaccc gcgtcgttgg    1140
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gtttctgcgc cggcagcctc atcgccccct gctgggtgct gacggccgct cactgcctgc    1260
aggaccggcc cgcacccgag gatctgacgg tggtgctcgg ccaggaacgc cgtaaccaca    1320
gctgtgagcc gtgccagacg ttggccgtgc gctcctaccg cttgcacgag gccttctcgc    1380
ccgtcagcta ccagcacgac ctggctctgt tgcgccttca ggaggatgcg gacggcagct    1440
gcgcgctcct gtcgccttac gttcagccgg tgtgcctgcc aagcggcgcc gcgcgaccct    1500
ccgagaccac gctctgccag gtggccggct ggggccacca gttcgagggg cggaggaat    1560
atgccagctt cctgcaggag gcgcaggtac cgttcctctc cctggagcgc tgctcagccc    1620
cggacgtgca cggatcctcc atcctccccg gcatgctctg cgcagggttc ctcgagggcg    1680
gcaccgatgc gtgccagggt gattccggag ccccgctggt gtgtgaggac caagctgcag    1740
agcgccggct caccctgcaa ggcatcatca gctggggatc gggctgtggt gaccgcaaca    1800
agccaggcgt ctacaccgat gtggcctact acctggcctg gatccgggag cacaccgttt    1860
cctgattgct cagggactca tctttccctc cttggtgatt ccgcagtgag agagtggctg    1920
gggcatggaa ggcaagattg tgtcccattc ccccagtgcg gccagctccg cgccaggatg    1980
gcgcaggaac tcaataaagt gctttgaaaa tgctgaaaaa aaaaaa                   2026
```

<210> 6751
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (557)...(136)
<223> similar to gi4336855 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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      <400> 6751
tttttttttt ttggcgctgc caaaactcat ttttcattaa cacggggtgg ggtcccaggc        60
tcaggccccc gggcccgatc atggccccag tccgcacaga gcgcccggcc ctggccgccc       120
gcagctccac cgctcagcca gtgatgcgca catccgtgcg gcggcggatc cgccgggccc       180
gagccgcctc gggcaggatg gcgagcagct gctcttgcac cagcatctcc acgatcttgc       240
tccttggtgc gggatgtcag gccgcagcca ctggcgggga caagctcccg cagctgccgg       300
aaagcctccc ggggacccgc cgcatcctgg tagcggaact gccggaaacg ctggcggaac       360
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gctcggggcg tagggatggc ttcagggacc gcggcgttgg gactggaagg ctcaggggca       540
ggcggtgagg cctctggcag cgaggagccc acacagttac gctcaggggc tgagctcgaa       600
ccggctcctt ccagtttctc cggtggcacc gccgcgggac tcccagtggc cgccaagatc       660
ggctccgtag ccgccataac tccagctccg ggcgtcactc tttgtccggt agctgtgtgc       720
tcagcactgc gtctgcgcgg gggtggggtg agcagggaga cgtttccggt taaagggcag       780
agctcgcgtc acccttgagg gagtcggact cgggaccggc cgagagtgtg cggagcttac       840
ctgcaccagc gaagcgcctg cggcagccgg aagcgaaagt ctctggcttc tctgcgtcca       900
ggtcggcgcg cgagcacccg gaagccgctt gcgggctccc ggaagcggcg ccctctagcg       960
ttctcgagtc gcatgggcgg ctgctgccct cgcggtgcgg gagggcgagc tgcgcgtggc      1020
ctcgtgccga attcccagg                                                    1039


      <210> 6752
      <211> 1773
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1774)
      <223> n = a,t,c or g

      <220>
      <221> misc_feature
      <222> (1702)...(562)
      <223> similar to gi173267 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters


      <400> 6752
agagagaaat gtccagacat caagagaagc tgtgtatgtg gcctggalttt tagaatgaga        60
tggcccagca gcttcctctt cctccctgga gaagagctat gagctgccag atgggcaggt       120
tatcaccatt ggcaatgagc gcttccgntg ccctgagacc ctcttccagc cttcctttat       180
tggcatggag tccgctggaa ttcatgagac aacctacaat tccatcatga agtgtgccat       240
tgacatccgt aaggacttat atgccaacaa tgtcctcttt ggggggcccc ccatgtaccc       300
tggcattgct gacaggatgc aaaaggagat cacagccctg gcccccagcc ccatgaagat       360
caagattatt gctcccccaa agcggaagta ctcagtttgg atcggggggt ttatcctggc       420
ctctctttcc cccttccaac aaatgtggat cagcaagcct gagtatgatg aggcagggcc       480
ctccattgtc cccaggaagt gtttcatgac tggtaacaga gtagtctcga ggggatcctt       540
ggagaacctg ttctgacttt agaagcactt cctgtggaca atggagggcc ctgcctcatc       600
atactcaggc ttgctgatcc acatctgctg gaaggtggag agagaggcca ggatagagcc       660
cccgatccag actgagtact tccgctctgg gggagcaata atcttgatct tcatggtgct       720
gggggccagg gctgtgatct ccttctgcat cctgtcagca atgccagggt acatggtggt       780
```

```
gcccccagag aggacattgt tggcatataa gtccttacgg atgtcaatgt cacacttcat      840
gatggaattg taggttgtct catgaattcc agcggactcc atgccaataa aggaaggctg      900
gaagagggtc tcagggcagc ggaagcgctc attgccaatg gtgataacct gcccatctgg      960
cagctcatag ctcttcttcc agggaggaag aggaagctgc tgtggccatc tcatttctca     1020
aaatcctggg ccacatagca cagcttctcc ttgatgtctc gcacaatttc tctctcagct     1080
gtggtcacaa aggaaatagc ctcctctctt gggaggatct tcatgaggta gtccgtgagg     1140
tcacggccca gccaaagtcc caggcgcatg atggcatggg gcagggcata gccttcatag     1200
atggggacat tgtgggtgac gccatcaccc tgaatccagg acgatgcctg tcgtgcggcc     1260
agaggcatag agggagagca cagcttgaat ggcgacgtac atggcaggga cattgaaggt     1320
ttcaaacatg atctgggtca tcttttccct gttggccttg ggatttaggg gagcctctgt     1380
gagcagggtg gggtgcctct tccaggtgct aacacgcagc tccattgtaa gaaggagtgg     1440
tgcccagatc ttctccatgt catcccagtt ggtgatgatg cccgtgttcc aatggggtat     1500
ttgagagtta ggatccctcg cttgctctga gcctcatccc cccacatagc tgtctttctg     1560
gcccattccc accatcacac cctggtggcg agggcggccc acaatggagg ggaagacagc     1620
ccggggggca tcatctcctg cgaagcctgc cttgcacagg ccagagccat tgtcacacac     1680
gagcgcggtg gtctcctctt cacacatggt gtatgtggct gagtgagctg gggactggag     1740
caccgagggt atgagaggtt cttctcccag tga                                  1773


          <210> 6753
          <211> 1150
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (298)...(0)
          <223> similar to gi2465332 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters




          <400> 6753
gagttttggg tccacggata aaacgtgtct cttttgtctc taccagaaaa tgaaaggaat       60
tgaaattaag agaagggaga gattgaagtg tagcgccaag attgaaagga gaaagaggtt      120
gagggatagt gaggcaagtt ggagaagaga gtaaaaagag gccgcttacc tgatttgaaa      180
ttggtgagat gtttcttggg ctggtcggtc tgaggacctg aggtcatagg tggatctttc      240
tcacggagca aagagcagga ggacagggga ttgatctccc aagggaggtc ccccaattcg      300
agtcacagca ccaaatttca tgcgcgtccg tgtgaagaga ccaccaaaca ggctttgtgt      360
gagcaacatg gctgtttatt tcacctgggt gcaggcgggc tgagtccgaa aagagagtca      420
gcgaagggag ataggggtgg ggccgtttta taggatttgg gtaggtagtg gaaaattaca      480
gtcaaagggg gttgttctct ggcgggcagg ggcggggtt gcaaggtgct cagtagggga      540
gcttctgagc aaggatgagc caggagaagg aatttcacaa ggtaatgtca tcagttaagg      600
cagaaaccag ccattttcac gtcttttgtg attcttcagt tgcttcaggg catctggatg      660
tatacgtgca ggtcataggg gatatgatgg cttagcttgg gctcagaggc cggacattcc      720
tgtcttctta tactaaagct cggcttctgt gatggtccag gggacttccg aggcgatcgg      780
gcagcgtcaa tcttcagtcg ctaagccgaa tagatctggg aaggagtcag agagccttgg      840
gctagagctt taggggctcc aggagtggct gtcgggcgag ctgggcagtc tgatttccag      900
tgggtgccag atttgaaatt ggtgagatgt ttcttgggct ggttggtctg aggacctgag      960
gtcgtaggtg gatctttctc acggagcaaa gagcaggagg acagggatt gatctcccaa     1020
gggaggtccc ccgatccgag tcacggcacc aaatttcatg cgcgtccgtg tgaagagacc     1080
accaaacagg ctttgtgtga gcaacgaggc tgtttatttc acctgggtgc aggcgggctg     1140
agtccgaaaa                                                            1150


                                   5418
```

<210> 6754
<211> 1618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)...(976)
<223> similar to gi3851518 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6754

```
agcgcaggtg ggcccgcgct ctcggccctg caagatgccc ctgaagctgc gggggaagaa    60
gaaggccaag tccaaggaga ccgccgggct ggtggagggc gagccgacgg gcgcgggcgg   120
cgggagcctc tcagcgtccc gggctcccgc acgcaggctg gtcttccacg cgcagctggc   180
gcacggtagt gccacgggcc gagtggaggg cttctccagc atccaggagc tctacgccca   240
gatcgcgggc gcgtttgaaa tctcgccgtc ggagatctta tattgcactt taaacacacc   300
taaaattgac atggaaagac tcttaggagg acaactagga ctagaagatt tcatatttgc   360
ccatgtgaaa ggaatcgaaa aagaagtgaa tgtgtataaa tctgaggatt cacttggtct   420
caccattaca gataatggtg ttggctatgc ttttataaag agaattaaag atggtggtgt   480
tattgactca gttaaaacaa tctgtgttgg ggatcatatt gaatccataa atggagaaaa   540
tattgttggg tggcgtcact atgatgttgc taagaagtta aaggaattaa aaaaggagga   600
actctttact atgaagttaa tagaacctaa gaaggcattt gaaatagagc tgaggtcaaa   660
ggctggaaag tcatcaggag aaaaaattgg ttgtggaagg gcaacacttc gcctgagatc   720
aaaaggtcct gccaccgtgg aagaaatgcc ttctgaaacc aaagcaaagg gcaattgaaa   780
agattgatga tgttcttgag ttgtacatgg gaattcgaga tattgattta gccaccacaa   840
tgtttgaagc tggaaaggac aaagtaaatc cagatgaatt tgctgtggca cttgacgaaa   900
ctcttggaga ctttgcgttc ccagacgaat ttgtctttga tgtttgggga gtcattggtg   960
atgccaaacg aagaggatta tgatgtgtac actccatctc tgaagaaaca acccatcgtt  1020
cttttttttt ctctttttta aaaagtccta taagatctgt ttttggacac ctttactaac  1080
tctggtttaa tttcatgtgt atggaatata ttctttgaaa tataattttg gtaattttga  1140
tttctgggca ctttttaaca ttgctgatgt agtatgctta agagaaatga cctaaataag  1200
gatcaattgt aatattcatt caaaaggttt ttaaaagtaa gttttaagga gtatttctcg  1260
acagatgatt ttaataaccc ctcatcccca tgctttgttt ttcacatata aatagatgat  1320
ttcaatagct ttgtagtttt ttttcaaaat cttaatgtaa actaggattg gagtatgatt  1380
tacctcatag tatcttcact gtgttatcct agtttgaaca ggatatgttc aggaaatgaa  1440
aggtgaatta tgccccttat tggtctagaa gcattggttt ttttttgatc ctctgagtaa  1500
gggaaggaag attcctgtgg catgttgatt tctatggcca actttctctc tttgtaaaac  1560
aaagattgat tgattttctt gtatgcttct ttatacatgc tcttaaaact tgtggttg    1618
```


<210> 6755
<211> 3367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (69)...(3369)
<223> similar to gi4585229 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6755
```
gcacgaggga aaactaactg gaaggaagtt taaatacaga aagagcaaag tattatctaa    60
ctataacaat gccacatttt actgtgacta aggtagagga cccagaggag ggggcagcgg   120
cttcgatctc tcaagagcct agtttagcag acataaaagc ccggattcag gattcagatg   180
aaccagacct gagtcagaac tccatcacag gggaacacag ccaactgtta gacgacggac   240
ataagaaagc tcgaaatgct tatctcaata attccaatta tgaagaagga gatgaatatt   300
ttgataaaaa tttggcactc tttgaggaag aaatggacac cagaccgaag gtgtcttccc   360
tcctcaaccg catggccaat tacactaatc tgactcaagg agcaaaggaa catgaagagg   420
cagaaaacat cactgaaggg aaaaagaagc ccaccaagac cccccaaatg ggtaccttca   480
tgggtgtcta cctccatgt ctacaaaata tttttggagt gatccttttt ttacgcctta   540
catgggtggt gggcacagct ggagttcttc aggcttttgc aattgtcctt atctgctgct   600
gctgtacaat gttgactgct atctccatga gtgccattgc cactaatgga gtggtgccag   660
ctgggggctc atactttatg atttcccggg cactgggccc agagtttggt ggggctgttg   720
gcctctgctt ttatcttggt accacatttg cagcagccat gtacatcctt ggtgccattg   780
aaatctttct ggtctatatc gtcccccgag ctgccatctt tcacagtgat gacgcactca   840
aggaatcagc agccatgcta aataacatgc gtgtctacgg cacagctttc ttggtcctta   900
tggtattagt ggtatttatc ggcgtacgct atgtgaacaa gtttgcctca cttttcctgg   960
cctgtgtcat tgtgtccatc ttggccatct atgctggagc catcaagtct tcttttgctc  1020
ctccacactt cccggtctgc atgctgggta accgcaccct ttcatcaaga cacattgacg  1080
tttgctctaa gaccaaggaa attaacaaca tgacagtccc atcaaagtta tggggattct  1140
tctgtaactc gagtcaattt ttcaatgcca cctgtgatga atactttgtt cacaataacg  1200
tcacttcaat ccagggcatt cctggattgg ctagtggtat aattacagag aatctttgga  1260
gtaattacct acccaaggga gagatcatcg aaaagccttc agccaaatct tctgatgtct  1320
taggcagctt aaaccatgaa tatgttcttg ttgacatcac cacctccttc acgcttctgg  1380
tgggaatctt ctttccctct gttacaggta tcatggctgg atcaaacaga tctggagatc  1440
tgaaagatgc tcagaagtct attccgattg gtactatcct tgccatcctg accacctcct  1500
ttgtttattt aagcaatgtt gtcctttttg gtgcatgtat tgaaggggtt gttctcagag  1560
acaagttcgg tgatgctgtg aaaggtaatt tggtggtagg caccttatct tggccatccc  1620
catgggtgat tgttattggc tccttctttt caacatgtgg ggctggactt cagagcctca  1680
caggtgcacc gaggctgcta caagctattg ccaaggataa catcataccg tttctgaggg  1740
tttttggcca cagcaaagcc aatggggaac ctacctgggc tttacttcta actgctgcca  1800
ttgcagagct tggaatactc attgcctccc tggatcttgt ggccccaatt ctttccatgt  1860
tttttctcat gtgttacctc tttgtaaact ggcatgtgc cttgcaaaca ttacttcgaa  1920
cacccaactg gagaccccga ttccgctact accattgggc cctttctttc atgggaatga  1980
gtatctgtct ggctctgatg ttcatttctt cctggtatta tgccattgta gccatggtaa  2040
tagctggtat gatctacaag tacattgaat accaaggagc tgagaaagaa tggggtgatg  2100
gtatccgtgg gctgtccctc agtgcagccc ggtttgcttt gcttcgattg gaggaaggac  2160
ctccacacac taaaaactgg aggcctcagt tgcttgtatt actgaaacta gatgaagact  2220
tacatgtcaa gcatcctcgc ctcctcacct ttgcctcaca gctcaaagca ggaaaaggtc  2280
tcactattgt gggctctgtc atcgtgggga acttcctaga gaactacggt gaagctttag  2340
ctgctgagca gaccataaag cacctaatgg aggcagagaa ggtaaaagga ttctgccagc  2400
tggtggtggc cgccaagctg agagagggca tttcccacct catccagtca tgtggccttg  2460
ggggcatgaa gcacaacacg gtggtgatgg ctggcctaa tggctggcgt caaagcgaag  2520
atgcccgcgc ttggaagact tttattggca cagttcgagt gacaactgct gcccatcttg  2580
cactgctggt ggctaaaaac atctccttct tcccagcaa tgtggagcaa ttttctgagg  2640
gcaacattga tgtgtggtgg attgtgcatg atgggggggat gcttatgcta ctaccattcc  2700
tactgaaaac agcacaaggt gtggcgaaag tgcagcatac ggttctttca cagtagccca  2760
attagaagac aacagtatcc aaatgaagaa ggacctagcc accttcctat atcacttacg  2820
```

5420

```
cattgaggcg gaggtagaag tggtggagat gcatgacagt gatatatcag catatactta   2880
cgagcgcact ttgatgatgg aacaaaggtc ccagatgctt cggcacatgc ggctatccaa   2940
aacagagcga gacagagagg cacaattggt gaaagaccga aactcaatgc tacgattgac   3000
cagcattggc tctgatgagg acgaagagac agaaacctat caggagaagg tgcacatgac   3060
ttggacaaaa gacaagtaca tggcatcccg gggacaaaaa gcgaagtcaa tggaaggatt   3120
ccaggacctg cttaacatgc gtccggacca gtccaatgtg aggcggatgc atacagcagt   3180
gaaactcaac gaggttatag ttaacaagtc ccatgaagca aagctggttt tattgaatat   3240
gccagggcca ccccgaaacc ctgagggtga tgaaaactac atggagttcc tagaggtgct   3300
taccgaggga ctagagcgag tcctacttgt ccggggtggt ggcagtgaag tgatcaccat   3360
ttattca                                                              3367
```

<210> 6756
<211> 1875
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (109)...(1672)
<223> similar to gi4929565 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6756
```
ccacgtgagc gcctgcgttt ctcctcaaac ctaacgatgc cgccggagcg gaggagacga     60
atgaaactgg accggagaac cggagcgaag ccgaagcgga agcccggaat gagggcggac    120
tggaaagccg gagcggggcc aggcgggcct ccccaaaagc ctgccccttc atcccagcgg    180
aaaccgccgg cccggccgag cgcggcggcc gctgcgattg cagtcgcggc ggcggaggaa    240
gagagacggc tccggcagcg gaaccgcctg aggctggagg aggacaaacc ggccgtggag    300
cggtgcttgg aggagctggt cttcggcgac gtcgagaacg acgaggacgc gttgctgcgg    360
cgtctgcgag gcccgagggt tcaagaacat gaagactcgg gtgactcaga agtggagaat    420
gaagcaaaag gtaattttcc acctcaaaag aagccagttt gggtggatga agaagatgaa    480
gatgaggaaa tggttgacat gatgaacaat cggtttcgga aggatatgat gaaaaatgct    540
agtgaaagta aactttcgaa agacaacctt aaaaagagac ttaaagaaga attccaacat    600
gccatgggag gagtacctgc ctgggcagag actactaagc ggaaaacatc ttcagatgat    660
gaaagtgaag aggatgaaga tgatttgttg caaaggactg ggaatttcat atccacatca    720
acttctcttc caagaggcat cttgaagatg aagaactgcc agcatgcgga atgctggaac    780
gtcctactgt tgctcggatc tccatctgtg cagttccatc ccggtgcaca gattgtgatg    840
gttgctggat tagataatgc tgtatcacta tttcaggttg atgggaaaac aaatcctaaa    900
attcagagca tctatttgga aaggtttcca atctttaagg cttgtttttag tgctaatggg    960
gaagaagttt tagccacgag tacccacagc aaggttcttt atgtctatga catgctggct   1020
ggaaagttaa ttcctgtgca tcaagtgaga ggtttgaaag agaagatagt gaggagcttt   1080
gaagtctccc cagatgggtc cttcttgctc ataaatggca ttgctggata tttgcatttg   1140
ctagcaatga agaccaaaga actgattgga agcatgaaaa ttaatggaag ggttgcagca   1200
tccacattct cttcagatag taagaaagta tacgcctctt cgggggatgg agaagtttat   1260
gtttgggatg tgaactcaag gaagtgcctt aacagatttg ttgatgaagg cagtttatat   1320
ggattaagca ttgccacatc taggaatgga cagtatgttg cttgtggttc taattgtgga   1380
gtggtaaata tatacaatca agattcttgt ctccaagaaa caaacccaaa gccaataaaa   1440
gctataatga acttggttac aggtgttact tctctgacct tcaatcctac tacagaaatc   1500
ttggcaattg cttcagaaaa aatgaaagaa gcagtcagat tggttcatct tccttcctgt   1560
acagtatttt caaacttccc agtcattaaa aataagaata tttctcatgt tcataccatg   1620
```
```
                                    5421
```

```
gattttttctc cgagaagtgg atactttgcc ttggggaatg aaaagggcaa ggccctgatg      1680
tataggttgc accattactc agacttctaa agagactatt tgaagtccag ttgagtcaca      1740
agagaagcct gtcttgatat atcatctcag aaactttcct gaatatgtgg ataatatatg      1800
gaaaatgatt tatagatccc agctgtgctt aagagccagt aatgtcttaa taaacatgtg      1860
gcagcttttg tttga                                                        1875
```

<210> 6757
<211> 4365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4366)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (158)...(4147)
<223> similar to gi2982501 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6757

```
ccccacgcca ccccaagcat cccaggactc ttctgaaaca gggcagtgac ccgggaggaa        60
gtcaccaggt gcagaggacc gtgccctgtg gggacctgcc tgcaggctgc tgacagactc       120
cgggctacca gatcggccgt ccagctggaa tcaaccgatg gaggctccgc tgcaaactgg       180
aatggtgctt ggcgtgatga tcggggccgg agtggcggtg gtggtcacgg ccgtgctcat       240
cctcctggtg gtgcggaggc tgcgagtgcc aaaaacccca gccccggatg gcccccggta       300
tcggttccgg aagagggaca aagtgctctt ctatggccgg aagattatgc ggaaggtgtc       360
acaatccacc tcctccctcg tggatacctc tgtctccgcc acctcccggc cacgcatgag       420
gaagaaactg aagatgctca acattgccaa gaagatcctg cgcatccaga aagagacgcc       480
cacgctgcag cggaaggagc ccccgcccgc agtgctagaa gctgacctga ccgagggcga       540
cctggctaac tcccatctgc cctctgaagt gctttatatg ctcaagaacg tccgggtgct       600
gggccacttc gagaagccac tcttcctgga gctctgccgc cacatggtct ccagcggct       660
gggccagggt gactacgtct ccggccgggg ccagccagat gccaagcatc tacgtggtgc       720
aggacgggct gctggagctc tgtctgccag ggcctgacgg gaaggagtgt gtggtgaagg       780
aagtggttcc tggggacaag cgtcaacagc cttctcaagc atcctggatg tcatcaccgg       840
tcaccagcat ccccaagcgg gaccggtgtc tgcccggggcg gcccgggact ccacggtgct       900
gcgcctgccg gtggaaacat tctccgcggt cttcaccaag tacccggaga gcttggtgcg       960
ggtcgtgcag atcatcatgg tgcggctgca gcgagtcacc ttcctggcac tgcacaacta      1020
cctgggtctg accaatgagc tcttcagcca cgagatccag cccctgcgtc tgttccccag      1080
ccccggcctc ccaactcgca ccagccctgt gcggggctcc aagagaatgg tcagcacctc      1140
agctacagac gagcccaggg agaccccagg gcggccaccc gatcccaccg ggcccccgct      1200
gcctggacct acaggggacc ctgtgaagcc cacatccctg gaaaccccct cggcccctct      1260
gctgagccgc tgcgtctcca tgccagggga catctcaggc ttgcagggtg gcccccgctc      1320
cgacttcgac atggcctatg agcgtggccg gatctccgtg tccctgcagg aagaggcctc      1380
cgggggggtcc ctggcagccc ccgctcggac ccccactcag gagcctcgtg agcagccggc      1440
aggcgcctgc tgaatacagc tactgtgagg atgagtcggc cactggtggc tgcccttttcg      1500
ggccctacca gggccgccag accagcagca tcttcgaggc agcaaagcag gagctggcca      1560
agctgatgcg gattgaggac ccctccctcc tgaacagcag agtcttgctg caccacgcca      1620
```

```
aagctggcac catcattgcc cgccagggag accaggacgt gagcctgcac ttcgtgctct    1680
ggggctgcct gcacgtgtac cagcgcatga tcgacaaggc ggaggacgtg tgcctgttcg    1740
tagcgcagcc cggggaactg gtggggcagc tggcggtgct cactggcgaa cctctcatct    1800
tcacactgcg agcccaacgc gactgcacct tcctgcggat ctccaagtcc gacttctatg    1860
agatcatgcg cgcacagccc agtgtggtgc tgagtgcggc gcacacggtg gcagccagga    1920
tgtcgccctt cgtgcgccag atggacttcg ccatcgactg gactgcagtg gaggcgggac    1980
ngcgcgctgt acaggcaggg cgaccgctcc gactgcactt acatcgtgct caatgggcgg    2040
ctgcgtagcg tgatccagcg aggcagtggc aagaaagagc tggtgggcga gtacgggcgc    2100
ggcgacctca tctgcgtggt ggaggcactg acccggcagc cgcgagccac gacggtgcac    2160
gcggtgcgcg acacggagct ggccaagctt cccgagggca ccttgggtca catcaaacgc    2220
cggtacccgc aggtcgtgac ccgccttatc cacctactga gccagaaaat tctagggaat    2280
ttgcagcagc tgcaaggacc cttcccagca ggctctgggt tgggtgtgcc cccacactcg    2340
gaactcacca acccagccag caacctggca actgtggcaa tcctgcctgt gtgtgctgag    2400
gtccccatgg tggccttcac gctggagctg cagcacgccc tgcaggccat cggtccgacg    2460
ctactcctta acagtgacat catccgggca cgcctggggg cctccgcact ggatagcatc    2520
caagagttcc ggctgtcagg gtggctggcc cagcaggagg atgcacaccg tatcgtactc    2580
taccagacgg acgcctcgct gacgccctgg accgtgcgct gcctgcgaca ggccgactgc    2640
atcctcattg tgggcctggg ggaccaggag cctaccctcg gccagctgga gcagatgctg    2700
gagaacacgg ctgtgcgcgc ccttaagcag ctagtcctgc tccaccgaga ggagggcgcg    2760
ggccccacgc gcaccgtgga gtggctaaat atgcgcagct ggtgctcggg gcacctgcac    2820
ctgcgctgtc cgcgccgcct cttttcgcgc cgcagccctg ccaagctgca tgagctctac    2880
gagaaggttt tctccaggcg cgcggaccgg cacagcgact tctcccgctt ggcgagggtg    2940
ctcacgggga acaccattgc ccttgtgcta ggcggggggcg gggccagggg ctgctcgcac    3000
atcggagtac taaaggcatt agaggaggcg ggggtccccg tggacctggt gggcggcacg    3060
tccattggct cttttcatcgg agcgttgtac gcggaggagc gcagcgccag ccgcacgaag    3120
cagcgggccc gggagtgggc caagagcatg acttcggtgc tggaacctgt gttggacctc    3180
acgtacccag tcacctccat gttcactggg tctgccttta accgcagcat ccatcgggtc    3240
ttccaggata agcagattga ggacctgtgg ctgccttact tcaacgtgac cacagatatc    3300
accgcctcag ccatgcgagt ccacaaagat ggctccctgt ggcggtacgt gcgcgccagc    3360
atgacgctgt cgggctacct gccccccgctg tgcgaccсca aggacgggca cctactcatg    3420
gatggcggct acatcaacaa tctgccagcg gacatcgccc gcagcatggg tgccaaaacg    3480
gtcatcgcca ttgacgtggg gagccaggat gagacggacc tcagcaccta cggggacagc    3540
ctgtccggct ggtggctgct gtggaagcgg ctgaatccct gggctgacaa ggtaaaggtt    3600
ccagacatgg ctgaaatcca gtcccgcctg gcctacgtgt cctgtgtgcg gcagctagag    3660
gttgtcaagt ccagctccta ctgcgagtac ctgcgcccgc ccatcgactg cttcaagacc    3720
atggactttg ggaagttcga ccagatctat gatgtgggct accagtacgg gaaggcggtg    3780
tttggaggct ggagccgtgg caacgtcatt gagaaaatgc tcacagaccg gcggtctaca    3840
gaccttaatg agagccgccg tgcagacgtg cttgccttcc caagctctgg cttcactgac    3900
ttggcagaga ttgtgtcccg gattgagccc cccacgagct atgtctctga tggctgtgct    3960
gacggagagg agtcagattg tctgacagag tatgaggagg acgccggacc cgactgctcg    4020
agggatgaag ggggggtcccc cgagggcgca agccccagca ctgcctccga gatggaggag    4080
gagaagtcga ttctccggca acgacgctgt ctgcсccagg agccgcccgg ctcagccaca    4140
gatgcctgag gacctcgaca ggggtcaccc cctccctccc acccctggac tgggctgggg    4200
gtggccccgt gggggtagct cactcccсct cctgctgcta tgcctgtgac ccccgcggcc    4260
cacacactgg actgacctgc cctgagcggg gatgcagtgt tgcactgatg acttgaccag    4320
ccccctcсccс aataaactcg cctcttggaa atggcaaaaa aaaaa                    4365
```

<210> 6758
<211> 858
<212> DNA
<213> Homo sapiens

<220>

5423

<221> misc_feature
<222> (215)...(603)
<223> similar to gi4580592 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6758
ctgagtctta cctcgttgtg gcgtcagaac cgccgtcgct cgctcccttc tcggcagtgg   60
tacctgttcc cggtgtccct gaggacgtgc gggccaggta cggccccgaa agtaggaagc   120
ggaggggggag caggtttgcg gggccaagtg ttgcggcgac gcacctcacg tcgagaatcg   180
ggaggaggag actgcaagga taggcccagg agtaatggag tccaaagagg aacgagcgtt   240
aaacaatctc atcgtggaaa atgtcaacca ggaaaatgat gaaaaagatg aaaaggagca   300
agttgctaat aaaggggagc ccttggccct acctttgaat gttagtgaat actgtgtgcc   360
tagaggaaac cgtaggcggt tccgcgttag gcagcccatc ctgcagtata gatgggacat   420
aatgcatagg cttggagagc cacaggcaag gatgagagag gagaatatgg aaaggattgg   480
ggaggaggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg   540
ggcagtcagc actgatcccc ctcaccatga ccatcacgat gagtttgcc cttatgccct   600
gaaacctgat ggttaccatt ctgatgttaa tagggagacc cctgcttcct aaacttacac   660
atttgtggtg tacctttgtc gtaaacgttt tgatgttacc tatttcttgt gggtctccta   720
ttaccagctt ctaaatgaat gttgttttg acccagtttg taagtttctg tcagcaggag   780
agttttacct attgcatgga aaaatgcccc ttatatattg tgaagttaat aaaacagttt   840
taaaaagcaa aaaaaaaa   858

        <210> 6759
        <211> 1465
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1466)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (583)...(446)
        <223> similar to gi3093363 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6759
tttttttttt ttctcactaa agaatattca tttatttata attattgcta agtaaacttc   60
tcttttaaac aggaacataa aaacacagta gggctttgca caagtggaat ctctaaacag   120
ttggtttgta tacatgtcaa aataagttag aatggaattt gtccaggagt ttccaagtca   180
cccgagaggc tgtgcacctc ttttgagaag gttagggagg ggtacagaca ggagccttgc   240
caagaccacc ccccagctca aactgtgagt tgtgctgttt cctcctccta gctttgccca   300
ggtccaaggc acagggcagg gggcgttcaa gtatcgaacc tcacagaggg ccagtgctga   360
cggcggggct ggggggaggga aaggagagcc ccaccctggg ggccagacct tctcccttca   420
gtttccaaga ccaaggccac tgcactggca ggaggaggag ggaggaggag aggtacaggg   480

```
ttctttttgg taccagggga gaaagacgtg ggaagaggta gttgcagggg atgatgcctt    540
ctgctcagca ggagaaaatg tcttatacag tgacggggtc actgccacct gagggtcatc    600
atggcgggca cctgggaggt cgtggggctt cggggtctgg aagccatact tgggccacct    660
tgtccacccc tcagtcctga tcacagtcac cctgaggcct ggcttggtcc ttcacttaag    720
gatccagcct tgggggtggc tgcgctgcag attggttcct cccaccgcag gctgttccct    780
tctccgggtt tctaggctga agctagtggc ttcatctgtg cctttgggga agacccctgc    840
ttgcccctcc ccactgaggc ctcaggaggc aagtgggtgg gggggtccgg gtgccctaga    900
gttcctgaat gtgctattca ctgccctggg cctgtcatct ctggttccag gggcaggagc    960
tggcgtggga acagaggga agagagcagg cgagcgaggg agctagctgt tggctgagca   1020
gagtcagcag ccctgacagc cgaggatggg acatgggaca gagcaagtca gcgactgcag   1080
gagccaggca ggggtggagg gcttcccagc tctgccttct cctgcctccc accccagcct   1140
gctgaggctg ctgccagcgg ctgcacctcc agggccaggg tgacagtccc catggagccc   1200
cagtcctgcc cggccaggct gctcggggtg ggtgggtagg aagcacgcac agcacattag   1260
gaagcttacg cttggaaaaa gaaaatgcat ctccatcaga aaaggtcata ggtgacacac   1320
agttggaaag aaaaaaataa taagttactt tcagaagacc ccctttgctc aaaaaaaccc   1380
ttgatttccc tctgtgggct ttactttcct ttttaaaata cgttgctctt tccgggaagc   1440
tgctgactcg tnnggggaat cctgc                                         1465
```

<210> 6760
<211> 1130
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (184)...(1042)
<223> similar to gi4455140 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6760
```
gcagtgcggt ggaattcgca gaaaggcaga aaggagaaaa ttcaggataa ctctcctgag     60
gggtgagcca agccctgcca tgtagtgcac gcaggacatc aacaaacaca gataacagga    120
aatgatccat tccctgtggt cacttattct aaaggcccca accttcaaag ttcaagtagt    180
gatatggatg actccacaga aagggagcag tcacgcctta cttcttgcct taagaaaaga    240
gaagaaatga aactgaagga gtgtgtttcc atcctcccac ggaaggaaag cccctctgtc    300
cgatcctcca aagacggaaa gctgctggct gcaaccttgc tgctggcact gctgtcttgc    360
tgcctcacgg tggtgtcttt ctaccaggtg gccgccctgc aagggggacct ggccagcctc    420
cgggcagagc tgcagggcca ccacgcggag aagctgccag caggagcagg agccccccaag   480
gccggcctgg gaggaagctc cagctgtcac cgcgcgggactg aaaatctttg aaccaccagc   540
tccaggagaa ggcaactcca gtcagaacag cagaaataag cgtgccgttc agggtccaga    600
agaaacagtc actcaagact gcttgcaact gattgcagac agtgaaacac caactataca    660
aaaaggatct tacacatttg ttccatggct tctcagcttt aaaaggggaa gtgccctaga    720
agaaaaagag aataaaatat tggtcaaaga aactggttac ttttttatat atggtcaggt    780
tttatatact gataagacct acgccatggg acatctaatt cagaggaaga aggtccatgt    840
ctttggggat gaattgagtc tggtgacttt gtttcgatgt attcaaaata tgcctgaaac    900
actacccaat aattcctgct attcagctgg cattgcaaaa ctggaagaag gagatgaact    960
ccaacttgca ataccaagag aaaatgcaca aatatcactg gatggagatg tcacattttt   1020
tggtgcattg aaactgctgt gacctactta caccatgtct gtagctattt tcctcccttt   1080
ctctgtacct ctaagaagaa agaatctaac tgaaaatacc aaaaaaaaaa             1130
```

```
<210> 6761
<211> 3398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2698)...(270)
<223> similar to gi5102733 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


       <400> 6761
   gttttgtttg tgtgtttttt ttgcataata ccaaagaatt tattgtaaat gtagtggcaa       60
   atacattcag aataatcatc attaaaaagg aactagaaaa ttatacatgt ttaaagtatg      120
   tgcttttttc ccaccacctt taagttaatg gctagtacca acattttaag taatgaaata      180
   cttaatgtga tgacccattt tcagataatt tcatgactgt atcttcatct taatttttaa      240
   agcagttgac catgaatttc agtttcagtt attctctgtt tttatcaatt ccgtaatgat      300
   ctgcagaatc ttgtcatttt caagggacat ctttggattt tcaagctttt ttcttaaaac      360
   tgaatcaatg agaactctca gctgcttgaa aatgacagct atctttacag gggcctgaaa      420
   atagatccag ccatcaatag aaagaagacg ttctcggtgc tgaacttcta tatcaccacc      480
   aaaaagtaaa actggaaaag gggttattag ggtagtttct ctcaaataca ctctggcata      540
   ccttatcttc tcctggtata agagccatcc atgagtttgc aaatctcgat ttactgagga      600
   tgggtgtact tgtgctttgc cttgggccgt ctccacaatg caagccaatt tttctgtaac      660
   atccactgac tttgtataga ttatcttccc cacattgtca tacagtccag ccaccagtac      720
   agctttaaga agggcaattt cttggaatga gagggtctgt gaggctctgt ttccttccca      780
   gctggtagaa gttgtggaag atgaaaatcc tgctgcctta accaacttta ttaactcctg      840
   ctttacatcc tctagggtta acagtgatgt tctattaaga aagttcctcc ggcagtatgt      900
   gatttcagaa cgataacctc cttcttgtcg tgctttcttc catcctagat atgcattgta      960
   gatcgtcagg tggtctgaat ccgccatggc caaagctgat tttgcaagat ctgcttcatc     1020
   ttttcgacca attggtgtgg taaaaggaga cttctctgtc ataactgcag ctagtgttgc     1080
   cactgggtca aggcagccaa atatggcacc aaaaataagc atcttgccaa tcttgacatt     1140
   cacaggtaaa gctgcaaggt gttggcccaa cggagtcagt ttaggctcat ttaattcaca     1200
   agctccaatt tttcggagca aattcattgc attgctgatc acttggagct gaggaggatc     1260
   taaggctttg gagaggaaat cttcaggaga accaagatta catttcataa tatgaaggca     1320
   taattcctcc aaaggtacac gtaagatttc aggaacagaa taatccataa agccttcaaa     1380
   tctttctctt gtgtacattc ggaaacagaa gccatctctg acccgcccag ctcttccctg     1440
   gcgctgcaaa gcactggctt tactgacaaa cgtctccacc aaagaactca tctgactgct     1500
   ttcatggtac ttattttctt ttgttcttcc agtatcaatt acaaatacaa catcaggaat     1560
   agtgataccc gtctctgcaa tattggttgc taaaacaatc ttcctgactc ctggaggggg     1620
   aagtgtgaat gctgcagctt gatcttgggt tgaaagaata gaatgcagag ctatcacttt     1680
   atatcgttca gaataaaatc ttctatcatt tgatagaaga tcatacaact gctgaatatg     1740
   agcaagtcct ggtaaaaaga tcaatactgc tccttcaata tttctgaatt ggggactttt     1800
   atctaagtat gcaagaagtt ccaaaatgag atccaggttg attttatgag gattcatgta     1860
   tagaatagca tgctgagtgc ggctgctgta cttttggtaa aatggattta aatcagcatg     1920
   tgctccagtc tgaactggga tgtattcctg atattttttt attcccctg ctttgcttgt     1980
   aacattaatg gttacttctt cttcctcttc cagaaatttc tgacaatatt ctgagtcttt     2040
   ttccagtaca aagcctgttt cttctattat atcttcaaga tgaaaaacct caacaggata     2100
   acttcttcct gaaattctga gaatggggca gtgtgtgaaa tatgtagaaa attttcgct     2160
   gtccacagtg gcactcatta gaatcaagt tagatcagaa cgtttctgta aaatttcctt     2220
   caagataatt agtaggaagt ctgactggac acttccttc atgaaacctc atctacaata     2280
```

                                   5426

```
aacatggaga cacattactt agaagaccat cttcttgaag tttccttagc aaaacccctg   2340
ttgtacaata gagtaacctg gtagattcac aagctcgaga ttccatccgg atctgatatc   2400
cacacaagga attccttcct ccaggtccat tttcacagcc caattcatca catactctgt   2460
tggctaaact aactgctgag attcttcggg gttgggtaca gacaatgtta catttacttg   2520
cttcccactc atttagaagc aaatcttcca atagaaaatg tggtacctga gtactttac    2580
cactccctgg tttcacctgc cacaaccact acccgatgcc ttttaagagt ttcaacaatt   2640
gagtcccgat gtttaaatac aggtagctag ttagtctttc ctttagaagt ttctgaatac   2700
ttaggtgtgc tttgcaactt tctaaagagg tttctaacag gttccaaatc ttccacattt   2760
gctgattcca aggacagtgc agaaaaatcc tcatccgaaa ctaaattttc ccaagattcc   2820
tcgggatctt cagagttttc tctcttattt tcagaatgct gttgttgctg ctgttgctgc   2880
tgtttcagtt tattcagaag tttggcaata aaaagatcac gtggtttatt ggtttccatt   2940
ttatttaatt cttcccttttt cttttctgca tcactccact ccagccaaac atctcggtaa   3000
gtgggaggaa gtaactgatg aactgactgc cctttaacta aacggtaaag ggctaaagta   3060
gctcccaggt gctgagcttg catgccatct tctgttaaga ttgtagggca tactaccagg   3120
acatcatctt cagacttgat taccctaacc ctacatttcc agtatctacc tactggaact   3180
ttttcaaagg aaggatttgg actcttggga agattcttcc tgacccaatc aatcagaaat   3240
tgtttgggag attttccagt ccaacttcga gcaggatagt caaaatttct tacatcatga   3300
ggttcgttgt ttctaacttt ctcttcctta ggcggcacct gccgaattct ttaaataaag   3360
tataaactca ttgcactttc tccttttaga ggctcaac                           3398
```

<210> 6762
<211> 2709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)...(1179)
<223> similar to gi33971 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6762
```
cgaggcgctc ccggagctga gcgcttctgc tctgggcacg catggcgccc gcacacggag    60
tctgacctga tgcagacgca aggggggttaa tatgaacgcc cctctcggtg gaatctggct   120
ctggctccct ctgctcttga cctggctcac ccccgaggtc aactcttcat ggtggtacat   180
gagagctaca ggtggctcct ccagggtgat gtgcgataat gtgccaggcc tggtgagcag   240
ccagcggcag ctgtgtcacc gacatccaga tgtgatgcgt gccattagcc agggcgtggc   300
cgagtggaca gcagaatgcc agcaccagtt ccgccagcac cgctggaatt gcaacaccct   360
ggacagggat cacagccttt ttggcagggt cctactccga agtagtcggg aatctgcctt   420
tgtttatgcc atctcctcag ctggagttgt atttgccatc accagggcct gtagccaagg   480
agaagtaaaa tcctgttcct gtgatccaaa gaagatggga agcgccaagg acagcaaagg   540
catttttgat tggggtggct gcagtgataa cattgactat gggatcaaat ttgcccgcgc   600
attcgtggat gcaaaggaaa ggaaaggaaa ggatgccaga gccctgatga atcttcacaa   660
caacagagct ggcaggaagg ctgtaaagcg gttcttgaaa caagagtgca agtgccacgg   720
ggtgagcggc tcatgtactc tcaggacatg ctggctggcc atggccgact tcaggaaaac   780
gggcgattat ctctggagga agtacaatgg ggccatccag gtggtcatga accaggatgg   840
cacaggtttc actgtggcta acgagaggtt taagaagcca acgaaaaatg acctcgtgta   900
ttttgagaat tctccagact actgtatcag ggaccgagag gcaggctccc tgggtacagc   960
aggccgtgtg tgcaacctga cttcccgggg catggacagc tgtgaagtca tgtgctgtgg   1020
gagaggctac gacacctccc atgtcacccg gatgaccaag tgtgggtgta agttccactg   1080
```
```
                                  5427
```

```
gtgctgcgcc gtgcgctgtc aggactgcct gggaagctct ggatgttgca cacattgcaa    1140
ggcccccaag aacgctgatt tggacaaccg ttacattgac cccagcaggc gtcaccatcc    1200
accttccctt tctacaagga ctccattgga tcttgcaaga acacttggac cttttgggttc  1260
tttctggggg gatatttcct aaggcatgtg gcctttatct caacggaagc cccctcttcc    1320
tccctggggg ccccaggatg gggggggccac acgctgcacc taaagcctac cctattctat   1380
ccatctcctg gtgttctgca gtcatctccc ctcctggcga gttctctttg gaaatagcat     1440
gacaggctgt tcagccggga gggtggtggg cccagaccac tgtctccacc caccttgacg    1500
tttcttcttt ctagagcagt tggccaagca gaaaaaaaag tgtctcaaag gagctttctc    1560
aatgtcttcc cacaaatggt cccaattaag aaattccata cttctctcag atgggaacag    1620
taaagaaagc agaatcaact gcccctgact taactttaac ttttgaaaag accaagactt    1680
ttgtctgatc caagtggttt tacagctacc cacccttagg ggtaattggt aattacctgg   1740
agaagaatgg ctttcaatac ccttttaagt ttaaaatgtg tatttttcaa ggcatttatt    1800
gccatattaa aatctgatgt aacaaggtgg ggacgtgtgt cctttggtac tatggtgtgt    1860
tgtatctttg taagagcaaa agcctcagaa agggattgct ttgcattact gtcccccttga   1920
tataaaaaat ctttagggaa tgagagttcc ttctcactta gaatccgaag ggaattaaaa    1980
agaagatgaa tggtctggca atattctgta actattgggt gaatatggtg gaaaataatt    2040
tagtggatgg aatatcagaa gtatatctgt acagatcaag aaaaaaaggg agaataaaat    2100
tcctatctca tattatgcat gtgacccatg gaatctcata actgaaagac ttgaaggatg    2160
aaaattttgg ggatacaaga ttggttaaac taaaatgctg acagagaggt ttccagagct   2220
aactcgtgcc tggggcggcc ttacaataag cagatgcctg aaagaagtcg gccacgtccg    2280
ccgtctgcta atgcccatca cccttcaagc ccagtttaaa gacctgtcat atttaattgt   2340
atttatttga tgcttacaag atgaatgtga tactgtagcc taaagcaaaa tgacacatag   2400
cattgcttat aaagttggta accctgctat attatattgc aaacaaatcg taacttggag    2460
actatgttta agggactcaa ctgtaattat gggagcatca gtatgcaaat agtggttggc    2520
ttctgccatc agccaaaaga tgacattcag ggaaaatgga gaggctgcct gcaccgtttt   2580
tttatgttaa atgaaagaaa ggtgaaatag ctacttctcg tcttcttgaa aaatttggtt    2640
cttattctgt atatgacttc cttacagtgc tacattaaca ggatatttca ttacatgcat    2700
ctggtatca                                                            2709
```


```
        <210> 6763
        <211> 2172
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (113)...(1313)
        <223> similar to gi303804 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 6763
tgcggccgca gccccgggct cgcgtaggcg ccgaccgctc ccggaccgcc cccatatggc      60
ccacggctac gaggcgccgc cgccgccagc cccgcggagc cccgcatggc gggcccggag     120
taagccggta gctgccgggc atcaccatca acccctacca tcgccgaggg cccatccccc     180
taccagcgag ggcgcctccg aggcaaacct ggtggacctg cagaagaagc tggaggagct     240
ggaacttgac gagcagcaga agaagcggct ggaagccttt ctcacccaga aagccaaggt     300
cggcgaactc aaagacgatg acttcgaaag gatctcagag ctgggcgcgg gcaacggcgg     360
ggtggtcacc aaagtccagc acagaccctc gggcctcatc atggccagga agctgatcca     420
ccttgagatc aagccggcca tccggaacca gatcatccgc gagctgcagg tcctgcacga     480
atgcaactcg ccgtacatcg tgggcttcta cgggggccttc tacagtgacg gggagatcag    540
```


                                   5428

```
catttgcatg gaacacatgg acggcggctc cctggaccag gtgctgaaag aggccaagag    600
gattcccgag gagatcctgg ggaaagtcag catcgcggtt ctccgggggct tggcgtacct    660
ccgagagaag caccagatca tgcaccgaga tgtgaagccc tccaacatcc tcgtgaactc    720
tagaggggag atcaagctgt gtgacttcgg ggtgagcggc cagctcatag actccatggc    780
caactccttc gtgggcacgc gctcctacat ggctccggag cggttgcagg gcacacatta    840
ctcggtgcag tcggacatct ggagcatggg cctgtccctg gtggagctgg ccgtcggaag    900
gtaccccatc cccccgcccg acgccaaaga gctggaggcc atctttggcc ggcccgtggt    960
cgacggggaa gaaggagagc ctcacagcat ctcgcctcgg ccgaggcccc ccgggcgccc    1020
cgtcagcggt cacgggatgg atagccggcc tgccatggcc atctttgaac tcctggacta    1080
tattgtgaac gagccacctc ctaagctgcc caacggtgtg ttcacccccg acttccagga    1140
gtttgtcaat aaatgcctca tcaagaaccc agcggagcgg cggacctga agatgctcac    1200
aaaccacacc ttcatcaagc ggtccgaggt ggaagaagtg gattttgccg gctggttgtg    1260
taaaaccctg cggctgaacc agcccggcac acccacgcgc accgccgtgt gacagtggcc    1320
gggctccctg cgtcccgctg gtgacctgcc caccgtccct gtccatgccc cgcccttcca    1380
gctgaggaca ggctggcgcc tccacccacc ctcctgcctc accctgcgg agagcaccgt    1440
ggcggggcga cagcgcatgc aggaacgggg gtctcctctc ctgcccgtcc tggccggggt    1500
gcctctgggg acggcgacg ctgctgtgtg tggtctcaga ggctctgctt ccttaggtta    1560
caaaacaaaa caggagagaa aaaagcaaac cgcgccatcc tgcttctttc ttccgttcgg    1620
cgttgggtgc tgggctttgc ttcagcccag cacggagagg acatccctga gctgacccgc    1680
atcgccgggc gccgaggctg gagggcgcag ggccctccct tagggagagc tcgcctctcc    1740
ctttgggtca agggatgaag acctgcagtg agcccccagg cgatggcggc tctcgccaaa    1800
aggaaggaga gtgaggctgg gggcggcggc tcatgcctgt cattccagtg ctttgggagc    1860
ctaaggcggg aggatcgctt gaacccaggg gattgaggct gcagtgaacc tcgatggtgc    1920
cagtgcgttc cggcatgggt gacagagcaa ggctactgaa aaaaagaag ggaaatgcca    1980
cctggtttcc ctctgtgtcc tccccgccac catctctgcc cctgtggaag gcagagcttc    2040
ggccttccgt gatggaaacc acttcctcta cactgctcct gtcacgtagc ctccgcggga    2100
aggccgcccc tgcctcttcc ccagcgtggc accatcctct ccctgtcccc ccgcttcagg    2160
gagtgggggc tc                                                         2172
```

<210> 6764
<211> 4368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(3033)
<223> similar to gi4537894 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6764
```
gaattccccg atgtacttct gcattaaatt ccttgctttc agaatcataa ccagggaatc    60
gtttggtact gtgagggata gacaagccct catttctgta atccctgcta agtgaggtca    120
aggctgacat ctaagatgtt ctgtggcgga acctggcccc catcaggggc aaccttttaat    180
ttggattctg gaagactaaa actttgagat ctctcccccg ccccccaggc tcccccggta    240
gctctcctcc ggcggtggcc cgcgctcggt ggatgtggct ggcagctgcc gcccccctccc    300
tcgctcgccg cctgcttttc ctcggccctc cgcctcctcc cctcctcctt ctcgtcttca    360
gccgctcctc tcgccgccgc ctccacagcc tgggcctcgc cgcgatgccg gagaagaggc    420
ccttcgagcg gctgcctgcc gatgtctccc ccatcaacta cagcctttgc ctcaagcccg    480
acttgctgga cttcaccttc gagggcaagc tggaggccgc cgcccaggtg aggcaggcga    540
```

                                5429

```
ctaatcagat tgtgatgaat tgtgctgata ttgatattat tacagcttca tatgcaccag    600
aaggagatga agaaatacat gctacaggat ttaactatca gaatgaagat gaaaaagtca    660
ccttgtcttt ccctagtact ctgcaaacag gtacgggaac cttaaagata gattttgttg    720
gagagctgaa tgacaaaatg aaaggtttct atagaagtaa atatactacc ccttctggag    780
aggtgcgcta tgctgctgta acacagtttg aggctactga tccgcgaagg gcttttcctt    840
gctgggatga gcctgctatc aaagcaactt ttgatatctc attggttgtt cctaaagaca    900
gagtagcttt atcaaacatg aatgtaattg accggaaacc ataccctgat gatgaaaatt    960
tagtggaagt gaagtttgcc cgcacacctg ttatgtctac atatctggtg gcatttgttg   1020
tgggtgaata tgactttgta gaaacaaggt caaaagatgg tgtgtgtgtc cgtgtttaca   1080
ctcctgttgg caaagcagag caaggaaaat ttgcgttaga ggttgctgct aaaaccttgc   1140
ctttttataa ggactacttc aatgttcctt atcctctacc taaaattgat ctcattgcta   1200
ttgcagactt tgcagctggt gccatggaga actggggcct tgttacttat agggagactg   1260
cattgcttat tgatccaaaa aattcctgtt cttcatcccg ccagtgggtt gctctggttg   1320
tgggacatga actcgcccat caatggtttg gaaatcttgt tactatggaa tggtggactc   1380
atctttggtt aaatgaaggt tttgcatcct ggattgaata tctgtgtgta gaccactgct   1440
tcccagagta tgatatttgg actcagtttg tttctgctga ttacacccgt gcccaggagc   1500
ttgacgcctt agataacagc catcctattg aagtcagtgt gggccatcca tctgaggttg   1560
atgagatatt tgatgctata tcatatagca aaggtgcatc tgtcatccga atgctgcatg   1620
actacattgg ggataaggac tttaagaaag gaatgaacat gtatttaacc aagttccaac   1680
aaaagaatgc tgccacagag gatctctggg aaagtttaga aaatgctagt ggtaaaccta   1740
tagcagctgt gatgaatacc tggaccaaac aaatgggatt tcccctcatt tatgtggaag   1800
ctgaacaggt agaagatgac agattattga ggttgtccca aaagaagttc tgtgctggtg   1860
ggtcatatgt tggtgaagat tgtccccagt ggatggtccc tatcacaatc tctactagtg   1920
aagaccccaa ccaggccaaa ctaaaaattc taatggacaa gccagagatg aatgtggttt   1980
tgaaaaatgt caaaccagac caatgggtga agttaaactt aggaacagtt gggtttttatc   2040
ggacccagta cagctctgcc atgctggaaa gtttattacc aggcattcgt gacctttctc   2100
tgccccctgt ggatcgactt ggattacaga atgacctctt ctccttggct cgagctggaa   2160
tcattagcac tgtagaggtt ctaaaagtca tggaggcttt tgtgaatgag cccaattata   2220
ctggtatgga gcgacctgag ctgtaacctg gggaattcct caactctctt gtccacacag   2280
acttctatga ggaaatccag gagtttgtga aagatgtctt ttcacctata ggggagagac   2340
tgggctggga ccccaaacct ggagaaggtc atctcgatgc actcctgagg ggcttggttc   2400
tgggaaaact aggaaaagca ggacataagg caacgttaga agaagcccgt cgtcggttta   2460
aggaccacgt ggaaggaaaa cagattctct ccgctgatct gaggagtcct gtctatctga   2520
ctgtttgaa gcatggtgat ggcactactt tagatattat gttaaaactt cataaacaag   2580
cagatatgca agaagagaaa aaccgaatcg aaagagtcct tggcgctact cttttgcctg   2640
acctgattca aaaagtcctc acgtttgcac tttcagaaga ggtacgtcca caggacactg   2700
tatcggtaat tggtggagta gctggaggca gcaagcatgg taggaaagct gcttggaaat   2760
tcataaagga caactgggaa gaactttata accgatacca gggaggattc ttaatatcca   2820
gactaataaa gctatcagtt gagggatttg cagttgataa aatggctgga gaggttaagg   2880
ctttcttcga gagtcaccca gctccttcag ctgagcgtac catccagcag tgttgtgaaa   2940
atattctgct gaatgctgcc tggctaaagc gagatgctga gagcatccac cagtacctcc   3000
ttcagcggaa ggcctcacca cccacagtgt gaatcctgag gttgcgccat tggcggttct   3060
gctcgttcgc tgcagggata aggtggagct accgaacagc tgattcatat gccaagaatt   3120
tggagtcttc tttcaaacca gtgggggttg gacaatgaat gtagttaact ggttcctgct   3180
cacactccag aattaaattc tattgaaaaa ggaaatcag caattcagca aaaaaataaa   3240
taaaaaataa aaatgtaaat atgatagtaa taaaatagag cataacgaaa ctgtgaaact   3300
ttctgaagcc ttgtcagtgg ttaaaagtat ttaacactct actgttaatg acagatgttc   3360
tgttttata acctaccaaa aggaaactag aggcttcttg gtgaagagca tttttgtgaa   3420
gtgggttctg caaggagcct ataaagccaa gggtggtgtc catttctggg aatggttaaa   3480
cacaaaggc tgatagctgg tatcacatag ttggagtcag tgcataattc caagtggctt   3540
tttttttttt tggcacgggg actgatcagg aagatatatt cctgcataac tcaatctgaa   3600
ccaaggattg tagtttagtt ttcctccttg ccttcccttc tgtgtgaccg accccttggc   3660
caaaaaaaaa acaaaaagca aaaacaaaa acctaccctg ttctggtttt tttcctccct   3720
ttagttccac ccccaacccc cattccctgg tgtccttctt agagatgaag aaataataag   3780
gaaacatctt tcatagccac attaaataag agaaactgat atacattatt tttttctttt   3840
taaagatgac ttataagaac cctgaaattt atataggtga gacaatagaa ataaaaagat   3900
cttcagccag gcctttctga aggagttatt ctgctaaaaa tggtcttagt tgtctgaaaa   3960
```

5430

```
gccagctctt gaacctcttc acaacagtat caacactggc ttctcccggt tcattttatg    4020
cgtgcgagaa gtcagtggta actgctgcag ggcttaatac attagtggta actggtttaa    4080
aaaacaaaga ctgtaagcct gtgtgtgcca ctgtttgctt caacagtata tcctactaat    4140
aagcctcacc tatttaatcc aatgagtttt aaatctaaat ctcattccct tcttctttcc    4200
ctaccttttt tttctttttt tcttaaaaaa atatttgtg ttattaacag aaattcatat    4260
ttggtgtggc ttaacggtat ttcagaaggt catcagattg tgagactgct tccttgaaac    4320
attttgtgc tattgtttta aaaaaataat taaaaaacag ttggcgtt                4368
```

<210> 6765
<211> 1596
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1275)...(568)
<223> similar to gi438164 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6765
```
ttagtcagac caacctgtct caggtaggaa tgcttgaccc ttttatttcg aagcaactca     60
tgcactcttt tcagcactca gaaggaactg tgagctttta tactactaca gccccagtat    120
ctcagcggta accatgggga aaaagtctt gttttccaaa ggaaatgag agttgggagg     180
agccttaata taagcagtga ggccagccgg gtggccccag gaagaactag gtgtcttgac    240
acctaatcca cacagcaggg aaaggggctg ggtgtgatgc acagtgcact gatttattt    300
acagatcaaa agccacttaa ataatctgca gacacaagtg ctgtccaggg cagaagcctg    360
gggtccaaat cagccttatc cctcctcatg cccacagtca gcccaatgct gtctccgttc    420
catgggccag cacaggcagg cgccactctg ctgacatgag gacctggggt agctcagaca    480
tttgactacc caagcccaga aaggagctgg gtccagccct tacggggaat tcctttaatt    540
cccccaggcc aggtgagtgc tgactcagtg atgacaacag ctgtagaagt aggggtttgg    600
cttctggccc agatccacgc ccttgtcctc tgtcatcacc tggaaggcag ccacactgac    660
gtaatcctct gccactttct ggaagagctc gtccacactc tggcctgtct tgctggatgt    720
ttcaaagagc tgagctttga tattgtctgc atagtcctgg acgtcgtgga agtccacacg    780
tcgacgcctc cggtcttctt ccagcaggtc actcttggtg ccacataagt agatttggca    840
gccctcctct aggctgcgca gttccttcac ccagaacttt gctcgctcaa agctgctgct    900
gtctgtgagg tcatagcaga cgatggcagc cttggcaccc cgatagtaga ttctactcat    960
ggcctcatag cgctcagagc ctgctgtgtc ccaaatacct aatgtcacag tccggtctcc   1020
gaccgacatc accttggcca cgaaggcggc cccgatggtc tgcaacgaga gggaagagat   1080
cggggccata ggtgcagatt accggccccc cactcccccg cccaccgtgc ctggcccctc   1140
cggatgcact cacgttctga taaggcccca ccagaaagcg gtcgtgcacg tagcgctcca   1200
ccaggctagt cttgcccacg tactccttgc ccagcatcac caccttgacg tccacgcgct   1260
gcccgctcat gctcccgggg ccgcttcagc cacgtcaggg tcctacgact ccagacagcg   1320
cgtcgggctc gagctctggc cgtggccttg cacttcggca gcgccccgtg tgcccccgct   1380
gttcggcccc gggcgccgat tatccttcga agaccccaag cctcggggcg gcctgggagc   1440
gcgcgggaca gcgtcctcaa cagcgcagca cgccgccgtg cagctcgcta ctccgtcatt   1500
cgctcgcctg cccggcttaa gctccgttct ggctgggaat cccaaccgaa cctggggtct   1560
cccgcaaccc gggtcctacc cgcagcgccg cgactc                             1596
```

<210> 6766
<211> 3828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3672)...(3395)
<223> similar to gi1710216 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6766

```
acatccacgg gaacctgggg aaggcctgca tccccgacac catccccaac cgcgtgacag    60
accacacctg tcccagcgga ggccccctct cacccagcct caccaccccg ctgccccgc    120
tagacatctc tgtggctgag cagcagcagc tgagctacat gccgctgcgg gatgattacg    180
agatcgagta tgaccaggat gccgagacgc tcatcagcgg gctctctgtc aactatgatg    240
acgacgacgt ggagatcgag ctgaagcgcg cccacgtgga catgtacgtg cggaagctga    300
aagagagaca gcggcggaag aacatcgccc gtgactacaa tctggtgcca gccttcctgg    360
ggaaggacaa gaaggagaag gaaaaggcgc tgaagcgcaa gatcaccaag gaggagaagg    420
agctgcgcct gaagctgagg ccgctgtacc agttcatgtc atgcaaggag tttgatgacc    480
tttttgaaaa catgcacaaa gaaaaaatgc tccgggccaa gatccgagaa ctgcagcggt    540
accggcgaaa cgggatcacc aagatggaag agtcggcaga gtacgaggca gcgcggcata    600
aacgggagaa gaggatggag aacaaaaacc tagccggctc caaacgggga aaggaggacg    660
gcaaagacag cgagttcgcc gccattgaga accttccagg cttcgagctc ctgtcagatc    720
gcgagaaggt gctctgcagc tctttaaact tgagtccagc ccgctacgtg actgtgaaga    780
ctattataat taaagaccac ctccagaagc ggcaaggaat ccccctccaaa agccgccttc    840
ctagctacct ggacaaagtc ctaaagaaaa ggattttgaa tttcctcaca gaaagcggct    900
ggatctccag ggacgcgtct tgaagctgag acgctttgaa agccagggtg atgctcagac    960
agtgtgccag ccaaaatgac ttgggggagg ggagccgctt ccccactgtt gctctttttt   1020
aaacaaattg agttcctttt tttaagatag aaattctttt catggtcctc tgaaagaagc   1080
aatagtaaca atcttatatt ggatcatggg ggaagcaaat gtgtgtattt taagtgagtt   1140
cctgcgagtc atacactgcg atgatgctcc gcctttaccc gttcagttgg gagcttattg   1200
tgagattgga tcatttcctt ttgagtgttc ttctctttgg tacaaaacct attgtgggtg   1260
acaggagcag tgtttttcctg ctggacccgc aagccaccag ctatttcctg gtgacacaag   1320
ctcttctcag gcggggctgc ctgcaggctc ccgttttctg agcccacgct gcccacagct   1380
gaccccagcg cagccccggg cacgcggcac tttacatggg ggcagcttgg gcccagactc   1440
ctccgctgtg tagcagatga ggaaaatcag gccagaggac aacaggctgg cgttttgttg   1500
ggaactgaag aggaatctgt tgaacacagc gaccagatga ccttccattt caccggcggc   1560
agcagtttca gcgtgcagtt cccaaacccc aaagctgacc ctgcgcccca tttgaatacg   1620
gccagagcct gctggttcac tttgggtaga gccgtgcctc ttgggcaggc tcccatagtg   1680
accacgtccc cacgaatggg aaagcacgtt agtgggaggg acgtaggaca cgtgtggacc   1740
gccaggccct ctcagtccat tttccggggc tgctcggtgc tgctgttaag acgtgagtgc   1800
atttcacttg gaagaaccca ttgtacaaag ttcaaggcta agagttctga attctggcgt   1860
cagcttcctc aggatttttct tcagttgcaa gtacctttcc actgaaaata tgagcatgcc   1920
cgcctggcta gtaggcatct gtaagagtgt cgccaggccc gcgccagctg aggcctcaga   1980
ctagccaggc aagagccgtc tgaccagttg gctggcggtg gttctggtgg agcacgaggg   2040
agcccgggtg gtgccctgag cctcgagctg ctctctgtca ctgtcttgaa tcagactcag   2100
aaatggcttc ttcccagccc tgcctacaag ttttttctctg gggtcctctt tcaaggatgt   2160
ccacggtacc ttcctcctga aacttgagga agtcttttgt cttccagctg ctcagggttc   2220
tctggtccaa gaccctgctt taaagagagt ctttggcgtg ctcagactcc agcgctccgt   2280
tcttcaagga ggttgacttg cctctcgggc cccgtaggta ccaagagact gtttacctcc   2340
cagaatgttt gggcttgaag ttacattaaa gtgaagttat ttgaaagaaa gaaaacctca   2400
```

5432

```
tcatttctaa ggatgactta attactgtgc cttttccttt cttttttacac atcctactgt  2460
cccttagggt aaaattttca gcattaaata aaacatttca aatatattgt atatggcttt  2520
agttgtaaac tatactgcat gctgacagag aagcgctctt ttagctaagc ccagaacttc  2580
tcttttgaca ataaagtact gagcagtggt atcatgaggg ccacctccac attgtcccct  2640
gcagaataaa tgcggatgac agaaagctta tgctgtctac cactgaacag tgatggagat  2700
ggtgctaagt ttttacagtt gtcttaaccc cagtggttct caaggtgggg ctcctggccc  2760
agcagcagca acttgtttgt tagaatgcag acgcgcaggc cccacctggc ctcctgaatc  2820
aaaatggtgt gcggcagggt gcagcgagct gttttcacga ggcctccagg tgactggatg  2880
taagcttgct tgagaactat gggtttttagc tattctggtg tctccctgat tttctacagc  2940
cgcaggatcc tagtttggtg aggtttttaaa tttaatctta ttttttatata aaatgattgc  3000
cagacggtac tatattaagc ttgaagaagc agaagatccc tgttaatgtg tatggcccag  3060
gccaagagct gtcaaatgaa aaactttgtg ctgaagcagg tttttagtat gtatatcttt  3120
ttgatggtat gaagaattta tttaggcttg actgttttaa aacaccataa tgaatgtata  3180
attaatttat gttaaagtat taaccctttg tcacaaagga atggtaatgt gattggctgc  3240
ctgttagccc atcgactatt cccgtcacgg tagtccttac ctctgtcggc agctcagagc  3300
ctccacattt ttatatttaa ttctcatgat aaattagcca ccataatccc atggaattag  3360
gtcttgttaa aatctagtcc gggcgcagtg gctcacgcct gtaatcccag cactttggga  3420
ggccaaggcg ggctgatcac gaggtcaaga gatcgagacc atcctggcca gcatgggaa  3480
accctgtctc tgctgaaaat acaaaaatta gctgggtgtg ggggtgcatg cctgtagtcc  3540
cagctacttg ggaggctgag gtaggagagt tgcttgaacc tgggaggcgg aggttgcggt  3600
gagctgagat cacgccacta cactccagcc tggtgacaga gcaagactcc atctcaaaaa  3660
aaaaaaatct aagcaaacta tctttgagtc aaaaaaagtt ggataactca tctatatttg  3720
aaataatgct gtctgaatgg ccaacatccc aagaatgtat taaaaacagc aacctgccta  3780
ccgttttgat gacctttttc catattaaac aagttgagaa caaaaaaa   3828
```

<210> 6767
<211> 2533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2534)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1180)...(84)
<223> similar to gi4490341 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6767
```
cggcacgagg ttttttttaa aagaataaaa tttattgtac tctcctcgcc ccagggtgcc   60
cctgggaaag cctgaggcta cttgtacgcg ttggccttgt gcttcggcaa gaaggcgaag  120
ctggggggca ctggcccaag gagcatctcg ctgatgcgga tccagtcggc tgccttctgg  180
ctggccatca gcgtctccag gtagtcgcgg cccaggtagt agggcggccg ctcgttgatc  240
ctcttgtggg agccgctcca gcagccccac gggcacgtac cggcacagga aggacagcca  300
ctcgagcaga aagcggccgg gtcttctcca cgccctgcgt gttccgagcc ccagtgctcc  360
aggccgtagt tgtttgaagt ctcgcaggat gtccaggcgc tcggacgacg agatgtccca  420
gtgccgctgc tccttgatcc tccgtgaaga gccccgggct tgagcagggc gccacgggca  480
```
```
                                    5433
```

```
atcatgatcc ccgttgaaca ccaattctgc atgggggccg gttggcaatc ctcaaatgac    540
aagatgtccc catttccgaa acaggggggca tggggctgcg gggcctgcac gcactcctcg    600
atgtactgcc agtcggctag cttggtgtag cgctgctccc gagagcggcc gtggagcgtg    660
acgagtgcca cgccccagtc ccgcagctcg ggcagcaggc ggtgcgccag gttcacacgc    720
tcctggacgc ctgtgcggat cttcacagtc agcggcacat ccagcacctg gttcatgcca    780
cggacgatct gctggaactt ggtggagcga ttcatgaggg cacagccccc acccttcttg    840
tacacgaggt cgatggggca gccgacgttg atgtccacaa agtccacctc cacggtgcgg    900
ctcagcagct cggcacactt ggtcatggtg tcggggaagg cgccctccag ctggacgcca    960
aagatgtcct cacactggtg gcgtttgagt agggcccact cggacatctg gccctgcagc   1020
aggttggtgc agacggccat ctctccacat gtcacatccg ccccgaagcg cttgcagatc   1080
cgtcggaagg gcaggttccc acacgtggtg aggggggcca ggtaaagttt gccacggatg   1140
tccagccgct tcttctcaca gggccgcagc ctgaccacgt cctcatccgt caggggcccg   1200
caggtccgca cggggctgct gggaggggtg ctagtgcccg gccctgcggg gacctgctgg   1260
gcaccacagt tttcctgcct gggagcgccc tcggctgccg tgccctcggg gacagcggca   1320
gcgggtgtgg ggccctggct gaaccggcgc agggcctgct cagctcgctc gaagcggacc   1380
tcgcgcttcc gcagctgctg ctgcagggct ttgtccaggc cgttgcggat ggacgggggc   1440
tgggtcccgc gggccgccaa ctcctcctgc accaggttct gtccctcggg cctcaggtgg   1500
gccccagcga agcggcaggt cacgccgtag gggcaccggc cgaaggtctc gaagagcacg   1560
cagcgggggc ccaggtcggc cggcttgagc agggcgccac gggcaatcat gatcccggtg   1620
acaccagtct gcatggcgcg gttggcatcc tcaaatgaca agatgtcccc atttccgaac   1680
aggggcatgg ggctggcggc ctgcacgcac tcctcgatgt actgccagtc ggctagcttg   1740
gtgtagcgct gctcccgaga gcggccgtgg agctggggga gaagccgcca cgcagggtag   1800
gaggcagaga gtgagacgca gagaggaaga gaccaagaga gccaggctga gagagacaga   1860
gagagacaca ggcggagaca gagggaggtg tggaggtgaa gagggaggga tgggaggaga   1920
ggagccatta ggaagggacg cggggtcgac cgcgaggccc caatgcccga ggcgtcccaa   1980
gacccccgt gacgagtgcc acgccccagt cccgcagctc gggcagcagg cggtgcgcca   2040
ggttcacacg ctcctggacg cctgtgcgga tcttcacagt cagcggcaca tccagcacct   2100
ggttcatgcc acggacgatc tgctggaact tggtggagcg attcatgagg gcacagcccc   2160
caccctggaa gagacaggcg ggtggaggga ggccagnacg tgggctgacc caagacccct   2220
caccctgct gcccggaggc ccccacaaga agacgccgac ctgcaggaaa ggcagggact   2280
ccagggccac acttgagccc aaacccctga ccctccaccg agacatcgcc ggctgggtca   2340
gtgcctccct gcccagatgg ggaaaccgag gcacacgtcc agggccgcta ccttcttgta   2400
cacgaggtcg atggggcagc cgacgttgat gtccacaaag tccacctcca cggtgcggct   2460
cagcagctcg gcacacttgg tcatggtgtc ggggaaggcg ccctccagct ggacgccaaa   2520
gatgtcctca cac                                                      2533
```

<400> 6768
```
tttttttttt ttttaaaatt aatcaaccaa cacccattct atttaaggtt ccaaaaggaa    60
gtagctggac ccggctgcag agcacactcc caccttgcgt tttgtcccaa aagtacatcc   120
cctacggggg gttctcctta aacaatttta atgtctgggt tggggaagca ggtagagcgc   180
gtagaggcag ctgctagagg ctggttgttg actccaggcc gcgttccagg aaatatcggt   240
gggaagaacg gggacgggct tgggacccct cattgaggaa gtaggatgtg atcttcctga   300
gtccctcctg attctcggat gctgagtcct ctcttataac atcttccgcc tctttctcca   360
gggatggtct gggccgtgcg ccagctgaaa ccggacaaac tgggggggaag ccggaacaca   420
ggctccacgt gctccttcaa ccacgccttt tgtcttgggg atcattgggg tagcctgagc   480
ccataatcag tatccaagtc ctgcagtttc tccacgaact gccatttctt cacggcctgg   540
tcccgggcca ccttggcaca gatgctggca gcactaaccc accgggtaga gggcatctgc   600
tttggccttg accgtcacct caatcccggg aaaactttgc tgcagccgcg cctggtatgt   660
ctctggcatc cctacggtgt ccacgaatac ctgggtgacg ttcacgccct ggtccaatgc   720
atactgtata agcccagtgg ctgtatcatg tgacagggag ttcaggttgt atttgacccg   780
cccaagcatg ctggtagaga tgaggtttgg agacagcaca tccagcgccc agccgacaaa   840
gtccgtgtcc tccattttcg caaacagcct ttcccgctcg ctctccaata gggtctttga   900
gtctgccact ttcagcgcct ccagatctgc caggcgaggc aggggacaat aacagatggc   960
gtagaccatg gggcccagca cggggcccct gcccgcctca tcgacgccca ggacgcaagg  1020
ctccttgcgg cacaccgcgg gcacaggcga actcaggcga cagcggcctg tattgtctct  1080
ctccagctcg ctgagatcca tgccgcctca gccgccacca ccagctgcaa gaactaatac  1140
tgcaggagcg ggtctcggcg cgcgtttttcc gcgggcctcg aagcggcgcc tgctntcggc  1200
c                                                                  1201
```

<210> 6769
<211> 2113
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (177)...(1207)
<223> similar to gi5739567 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6769
```
ggaaaggtct tgtcagacca tatgtgctgt ttcaggctgc ttcaaattct tttaggacag    60
tggtggatat gagtgaagac ggggcaggca ggccacatct cttataagag gaaggtgatt   120
gccacgtctc cttcctccat gctgatggca aggcgtgcgg gctgtgttct cttgcagcca   180
gcgtcccatg ctcggtggcc ccagaaaagt cagtgtgtag gcctcagcca cttcaggtcc   240
ggcgtacatt ctccctggac accatcctca gctcctacct tctgggccag tggccacgag   300
atgctgatgg ggccttcacc tgctgcacca atgacaaggc cacccagacg cccctgtcct   360
ggcaagagct agaaggtgag cgtgccagtt cctgtgcaca caagcgctca gcatcctggg   420
gcagcacaga ccaccgaaaa gagatttcca agttgaagca acaactgcag aggacgaagc   480
tgagccgcag tgggaaagag aaggagcgag gttcaccact cctaggggac cacgcagtgc   540
ggggagcact gagggcgtcc cctcccagct tcccctcagg gtccctgtc ttgcgactca   600
gcccctgcct gcacaggagc ctggaagggc tcaaccaaga gctggaggag gtatttgtga   660
aggagcaggg agaagaggag ctgctgagga tccttgatat ccctgatggg caccgggccc   720
cagctcctcc ccagagtggc agctgtgatc atcccctcct cctcctggag cctggcaacc   780
```
```
                            5435
```

```
ttgccagctc tccttccatg tccttggcat ctccccagcc ttgtggcctg gccagtcatg    840
aggaacatcg gggtgccgcc gaggagctgg catccacccc caacgacaaa gcctcctctc    900
caggacaccc agcctttctt gaagatggca gcccatctcc agtccttgcc tttgctgcct    960
cccctcgacc taatcatagc tacatcttca aacgggagcc cccagaaggc tgtgagaaag   1020
tgcgtgtgtt tgaagaagcc acgtctccag gtcctgacct ggccttcctg acttcctgtc   1080
ctgacaagaa caaagtccat ttcaacccga ctggctcagc cttctgcccc gtcaacctga   1140
tgaagcccct cttccccggc atgggcttca tcttccgtaa ctgcccctca aacccgggat   1200
ctccccttcc cccggccagc cccaggccac cacctcggaa ggatccggaa gcctccaagg   1260
cctccccact gccattcgag ccatggcagc gcaccccacc atcagaagag cctgtgcttt   1320
tccagagctc cctgatggtc tgagggtccc acccctgccc cactttacca tagagaccag   1380
tgccttggtg gcaggtccct ccccaggtcc cctgagatgg ggtatggagg ggcccttccc   1440
tctcggcctt cgagcacttt ctttcactta ctgtgtcaaa gccctgggtc ctctttttga   1500
tgggcaccgg cccctctgaa cgtgatggga cctgccttct ccactagtag ctgggcagct   1560
cacaattcac acctgtgtac ctgccacatc cctcacttgg tggaaaacac ccagaaggtc   1620
ttgagtcccc cacccctggg tgtcagtcca aatgactgta taggaggccc ttatttttgt   1680
cacagagcaa gctggccatg aacgaaggag agaagacgcc acagatttcc ttccctctcc   1740
tccaggagac cataagatag atcccccatc ctctcagccc tattcccatg cctccctctc   1800
attggaggag ctgaccaaag cagccctaac gggccataac acttgaccaa ttcagctgct   1860
ggcagaggga ggaaacaagt gttttcccaa gtggcatttt catctcgctt tcaccctgac   1920
ttaagacaat ctttagtcag ggtgaaagcg agatgaaaga ttgtcttaag tagcagccca   1980
gcccgcccag ccccaggtgg gtagtgggga ggagagctgg cattcctcca ggtggcaaat   2040
ggcgactcta tactctccgc ccgccccagg gctggatgga ttagaaaaat gcctattttt   2100
cttgtatcga tga                                                      2113
```

```
        <210> 6770
        <211> 1368
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1342)...(543)
        <223> similar to gi3980034 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6770
tttttttttt ttcaaaacat agttattttt actttttaag ttatataaat aatatacatt     60
ttcaatatag gaaaatggga agatacagat aagcagtggt cttatatata tccttgcagc    120
tttttccctt cggacataca tattttgtta cagtaattcc tgcatctcaa aaataataca    180
aaaagtgaaa ataagtttag accagcctta accttagctc aggtgctaat ttatatataa    240
atctatgtgc attcatttca attttgactt acaaaatcta aagtgatgct gttataatac    300
taaaagattc cactttaaac agcagcagtt tcagaataat taaaaatttg attcaggcat    360
gaggctgata aagaacgaag ttttactttt tttcattaaa ataagtagct ttctactatt    420
gcatcctttg aagagaagaa tgttctgctg gtttggccac aagctcttta gatggttact    480
tttagtaaac tcttcattca tcctggcatt cttgaaaata ttcgtcaaac atagaggaag    540
actcatcttc acgttccttt ggttctttaa attctaggtc ttctccatat tgaatggcaa    600
aatcaatatg ctgcaataca atgttcatgc tttcttcatc tgactgatcg taaggtaaaa    660
atcgaaccat gctgtagtca tcaatcagtc cacatatagc tttagtcagt ttcttgaatt    720
ttttgcttct taagtcactt gtagaatctt ctaataaaga atacatgtct ggatctaaaa    780
atttctcaat ttcctttttt gcttttttac tcagcagatc catttttgtc atgatgttga    840
```

5436

```
cttgcggaat ttctagagag atcatggcac tcagggctgc caagatgcca gaaataaact      900
tgaatgactc caccatgaac tgagaatcaa caagaaaaac tccacagact cggaacccca      960
ctgctcgagc tgctggacca gctgtttcat cacaggcagg tgagtgtaca actcaatctg     1020
acctggacaa tcaaaaagga tatagtcgtc ctctacatgg ccaagacagt tctccagcca     1080
gtcaaaatta ttggcaaagt actccatgca aaataccaat cctccgttgg gaccgaatcg     1140
cagagaatca tcctccatta catcatccac ctcgatcagt tcccggatgt cagccatcac     1200
ggagtagttg aagtgttctg ctgctggatc caggtttaca acttggacag accggttgag     1260
ggcttcacag tgctggacca tggtggcaca gtaggtgctc ttcccgctgc ccgcggggcc     1320
catgaccagc tgcgcatacc gaggcatgtt ggctcccgga gccgcccg               1368
```

```
<210> 6771
<211> 1643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(1473)
<223> similar to gi3717145 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6771
gaattccggc gagtgcgcgc tcctcctcgc ccgccgctag gtccatcccg gcccagccac       60
catgtccatc cacttcagct ccccggtatt cacctcgcgc tcagccgcct tctcgggccg      120
cggcgcccag gtgcgcctga gctccgctcg ccccggcggc cttggcagca gcagcctcta      180
cggcctcggc gcctcgcggc cgcgcgtggc cgtgcgctct gcctatgggg gcccggtggg      240
cgccggcatc cgcgaggtgc accattaacc agagcctgct ggccccgctg cggctggacg      300
ccgacccctc cctccaggcg ggtgcgccag gaggagagcg agcagatcaa gaccctcaac      360
aacaagtttg cctccttcat cgacaaggtg cggtttctgg agcagcagaa caagctgctg      420
gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg cctcccagac      480
atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca ggtggatggg      540
ggccgcctgg aggcggagct gcggagcatg caggatgtgg tggaggactt caagaataag      600
tacgaagatg aaattaaccg ccgcacagct gctgagaatg agtttgtggt gctgaagaag      660
gatgtggatg ctgcctacat gagcaaggtg gagctggagg ccaaggtgga tgccctgaat      720
gatgagatca acttcctcag gaccctcaat gagacggagt tgacagagct gcagtcccag      780
atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga cctggacggc      840
atcatcgctg aggtcaaggc acagtatgag gagatggcca aatgcagccg gctgaggct      900
gaagcctggt accagaccaa gtttgagacc ctccaggccc aggctgggaa gcatgggac      960
gacctccgga atacccggaa tgagatttca gagatgaacc gggccatcca gaggctgcag     1020
gctgagatcg acaacatcaa gaaccagcgt gccaagttgg aggccgccat tgccgaggct     1080
gaggagcgtg gggagctggc gctcaaggat gctcgtgcca agcaggagga gctggaagcc     1140
gccctgcagc gggccaagca ggatatggca cggcagctgc gtgagtacca ggaactcatg     1200
agcgtgaagc tggccctgga catcgagatc gccacctacc gcaagctgct ggagggcgag     1260
gagagccggt tggctggaga tggagtggga gccgtgaata tctctgtgat gaattccact     1320
ggtggcagta gcagtggcgg tggcattggg ctgaccctcg ggggaaccat gggcagcaat     1380
gccctgagct tctccagcag tgcgggtcct gggctcctga aggcttattc catccggacc     1440
gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc cactcctcca     1500
gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg gtcccaagac     1560
agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcc tcattctgag     1620
gcctgagtga tccaaaaaaa aaa                                             1643
```

<210> 6772
<211> 620
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (567)...(189)
<223> similar to gi35184 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6772
```
tttttttttt ttttggggag ttgcaacaat tcatctttat ttcttatttt cctctggaga      60
tgcagaattt ggtatatttc accccaggta tatttgggat agttggctcc tcgctgggtc     120
aggatggctg ggtgccttct cccctggcat ggttctcttc tctgcagggc gaggggcagg     180
gagctagtaa aacctcgcaa tgacagcccg caatggcaga cccaatggag cccaggatga     240
acttggtcaa tccggagaag tccagttgct cccagtgact gcagaagtag ccacaaaggc     300
tgccccgggg aaactccacc cccattgggc aatggccgcc gcggacatca tcttggctgc     360
tatggaggac gaggcgattc ccgcgcgcag ttgaagcccc atggcacttg agcaccatgg     420
gcacagcctg catgggccac caactcttca atcacaactt gtagcaatcc tggccagggg     480
caaaactacg gcagagccag aggccacccc tgaccacttt ggccacactg gtcacttgct     540
gatttagtga gagcagaggc ctccatgcct gctcgggtta attccgtggc ttagagagta     600
agagatcctc aacttcagct                                                 620
```


<210> 6773
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (434)...(626)
<223> similar to gi4927204 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6773
```
tggtgctttg aaacttggac acattaccca gcttgcacga ggggcgggcc cttaacaggc      60
```

```
accgctgcgg ggactggagt cggcggagaa aaccggggtc cccagcgctg gggcccgcgg      120
cgccatggct cacgtcggct cccgcaagcg ctcgaggagt cgcagccggt cccggggacg      180
ggggtcggaa aagagaaaga agaagagcag gaaagacacc tcgaggaact gctcggcctc      240
cacatcccaa gagagaagca agcagaaggc ccggaggaga acaagatcca gctcctcctc      300
ctcttcttcc agttcttcta gctcctcttc ttcctcctcg gcctcctcct cttcctccag      360
tgatggccgg aagaagcggg ggaagtacaa ggacaagagg agnnnnnnnn nnnnnnnnnn      420
nnnnnnnctg aagaagaagg gcaaggagaa ggcggaagca cagcaggtgg aggctctgcc      480
gggcccctcg ctggaccagt ggcaccgatc agctggggag gaagaggatg gcccagtcct      540
gacggatgag cagaagtccc gaatccaggc catgaagccc atgaccaagg aggagtggga      600
tgcccggcag agcatcatcc gcaaggtggt ggaccctgag acggggcgca ccaggcttat      660
taagggagat ggcgaggtcc tagaggaaat cgtaaccaaa gaacgacaca gagagatcaa      720
caagcaagcc acccgagggg actgcctggc cttccagatg cgagctgggt tgcttccctg      780
agggcccccg ctggccaagg c                                               801
```

```
        <400> 6774
tacatgaaat ctgcagtttc ataatttccg tgggtcgggc cgggcgggcc aggcgctggg       60
cacggtgatg gccaccactg gggccctggg caactactac gtggactcgt tcctgctggg      120
cgccgacgcc gcggatgagc tgagcgttgg ccgctatgcg ccggggaccc tgggccagcc      180
tccccggcag gcggcgacgc tggccgagca ccccgacttc agcccgtgca gcttccagtc      240
caaggcgacg gtgtttggcg cctcgaggaa cccagtgcac gcggcgggcg ccaacgctgt      300
acccgctgcg gtgtaccacc accatcacca ccaccccctac gtgcacccc aggcgcccgt      360
ggcggcggcg gcgccggacg gcaggtacat gcgctcctgg ctggagccca acgcccggtg      420
cgctctcctt cgcgggcttg ccctccagcc ggccttatgg cattaaacct gaaccgctgt      480
cggccagaag gggtgactgt cccacgcttg acactcacac tttctccctg actgactatg      540
cttgtggttc tcctccagtt gatagagaaa aacaacccag cgaaggcgcc ttctctgaaa      600
acaatgctga gaatgagagc ggcggagaca agcccccat cgatcccaat aacccagcag      660
ccaactggct tcatgcgcgc tccactcgga aaaagcggtg ccctataca aaacaccaga      720
ccctggaact ggagaaagag tttctgttca acatgtacct caccaggggac cgcaggtacg      780
aggtggctcg actgctcaac ctcaccgaga ggcaggtcaa gatctggttc cagaaccgca      840
ggatgaaaat gaagaaaatc aacaaagacc gagcaaaaga cgagtgatgc catttgggct      900
tatttagaaa aaagggtaag ctagagagaa aaagaaagaa ctgtccgtcc cccttccgcc      960
ttctcccttt tctcacccccc accctagcct ccaccatccc cgcacaaagc ggctctaaac     1020
ctcaggccac atcttttcca aggcaaaccc tgttcaggct ggctcgtagg cctgccgctt     1080
tgatggagga ggtattgtaa gctttccatt ttctataaga aaaggaaaa gttgagggggg     1140
gggcattagt gctgatagct gtgtgtgtta gcttgtatat atattttttaa aaatctacct     1200
gttcctgact taaaaaaaaa ggaaagaaac tacctttta taatgcacaa ctgttgatgg     1260
taggctgtat agtttttagt ctgtgtagtt aatttaattt gcagttgtg cggcagattg     1320
ctctgccaag atacttgaac actgtgtttt attgtggtaa ttatgttttg tgattcaaac     1380
ttctgtgtac tgggtgatgc acccattgtg attgtggaag atagaattca atttgaactc     1440
```

5439

```
aggttgttta tgaggggaaa aaaacagttg catagagtat agctctgtag tggaatatgt    1500
cttctgtata actaggctgt taacctatga ttgtaaagta gctgtaagaa tttcccagtg    1560
aaataaaaaa aaattttaag tgttctcggg gatgcataga ttcatcattt tctccacctt    1620
aaaaatgcgg gcatttaagt ctgtccatta tctatatagt cctgtcttgt ctattgtata    1680
tataatctat atgattaaag aaaatatgca taatcagaca agcgtaatgc ataatcagac    1740
aagcttgaat attgtttttg caccagacga acagtgagga aattcggagc tatacatatg    1800
tgcagaaggt tactacctag ggtttatgct taattttaat cggaggaaat gaatgctgat    1860
tgtaacggag ttaattttat tgataataaa ttatacacta tgaaaccgcc attgggctac    1920
tgtagatttg tatccttgat gaatctgggg tttccatcag actgaactta cactgtatat    1980
tttgcaatag ttacctcaag gcctactgac caaattgttg tgttgagatg atatttaact    2040
ttttgccaaa taaaatatat tgattctttt ct                                  2072
```

<210> 6775
<211> 1160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1161)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (449)...(283)
<223> similar to gi2294252 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6775
```
ggtcaccact ttagtccctg gccaccagca caccccagga gggtgagtgg cctgaggtag      60
ttacggcact taaaactccc ttgctaccga tctggaactc aagccccaag acatcccctt     120
agatgatctg aatacgcatt cagggacaga tctaggcagt ttctaaacaa cacttagact     180
ggggtctaac gttgacaaat ccttctagaa tttgcctctt tgggactgaa gtctaagggg     240
ctgagaccaa gaagggagag cacaagacta actttggtct cttgaccttt tcttaccttg     300
caactgtcag tgcctccagc caaatgccta gcacagagct cagtggattt gattcttcca     360
ttcagatact catagcgatt gcacacttta ttctcaatca caagaagctg gggctttctt     420
gagaaggcca gccccaaagg tacctgtgtt taaaagatga aagaaatggt tgctgaaccc     480
aaaacatgtt taggaggaaa accagaagaa cagagcagtg gcactggacc tcctgtctgt     540
ccgtgaggct gcagaacaca aggcagctcc caatgccgct ggactctctg accttggaga     600
gtgtaaacat catatatgat tctgtgttcc tgagatctgg gtttaacgat ctgggctttg     660
gcatggtgct ttacgatcgt tgttgcttgt gtactttttg cttttctttt gaaaggacgt     720
agacgaccct tacaatgtaa agagagtctg agaaatgcaa ttgctattct ttttatatac     780
tttttcagat tttttatatg cttctttact acttacatca taatgcacaa ttttatatac     840
tgattttttc aatcaatgta tatcatgagt ttttaaaata atgctacaat cttcataact     900
aatattttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttcagt    1020
ggtaccctgc aaataatta aaatcctaac tcttannnnn nnnnnnnnnn nnnnnnnnnn     1080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaagaggg ggccccctn    1140
nnnnnnnnnn catctctccc                                               1160
```

5440

<210> 6776
<211> 2399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2400)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (181)...(1900)
<223> similar to gi2088768 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6776
```
ggcacgaggc agctgccgcc gcctagcccg gggtctggac ctggggactc cccagaaggg      60
cccgagggggg aggctccgga gcgtcggcgg aaggcgcacg ggatgctgaa gctttactac     120
ggcctctcgg aaggggaggc ggcgggacgc cccgcggggc ccgacccct ggacccgact      180
gatctgaacg gggcgcactt cgacccggaa gtttacctag acaagctgcg tagagagtgc     240
cctctggccc agttgatgga cagtgagacg gacatggtgc ggcagatccg ggctctagac     300
agcgacatgc agaccctggt ctatgagaac tacaacaagt tcatctcagc cacagacacc     360
atccggaaga tgaagaacga tttccggaag atggaggatg agatggaccg gctggccacc     420
aacatggcag tgatcaccga cttcagcgct cgcatcagcg ccacgctgca ggaccgccac     480
gagcgcatca ccaagctggc aggggtccac gcgctgctgc ggaagctgca gttcctcttt     540
gagctgccct cgcgcctcac caagtgcgtg gaactgggcg cctatgggca ggcggtgcgc     600
taccagggcc gcgcgcaggc cgtgctgcag cagtaccaac acctgccctc gttccgcgcc     660
atccaggacg actgccaggt catcacggcc cgcctggccc agcagctgcg gcagcgcttt     720
agggagggcg gctcaggcgc cccggagcag gcagagtgcg tggagctgct gctggccctg     780
ggcgagcctg cggaggagct gtgcgaggag ttcctggcgc acgcccgcgg ccggctggag     840
aaggagctga gaaacctgga ggccgagctg gggccctcac ctccggctcc cgacgtgtta     900
gagttcaccg accatggtag gcagtggctt cgtgggcggc ctctgccagg tggcggcggc     960
ctaccaggag ctgtttgcgg cccagggccc agcaggtgcc gagaagctgg cggccttcgc    1020
ccggcagctg ggcagccgct attttgcgct ggtggagcgg cggctggcgc aggagcaggg    1080
tggtggtgac aactcactgc tggtgcgggc gctggaccgc ttccaccggc gcttgcgggc    1140
tcccgggggcc ctgctggccg ctgccgggct cgcagacgct gccacggaga tcgtggaacg    1200
agtggcccgc gagcgcctgg gccaccacct gcagggtctc cgggcggcct tcctgggctg    1260
cctgacagac gtccgccagg cgctggcagc acctcgcgtg gctgggaagg agggccctgg    1320
cctggccgag ttgctggcca atgtggccag ctccatcctg agccacatta aggcctctct    1380
ggcagcagtg cacctttttca ccgccaaaga ggtgtccttc tccaacaagc cctacttccg    1440
gggtgagttc tgcagtcagg gtgtccgtga gggcctcatc gtgggcttcg tccactctat    1500
gtgccagacg gctcagagct tctgcgacag ccctggggag aaggggggtg ccacaccacc    1560
tgccctgctc ctgctgctct cccgcctctg cctggactac gagacggcca ccatctccta    1620
catcctcact ctcactgatg aacagtttct ggtgcaggat cagttcccag tgacgcccgt    1680
gagcacgctg tgtgcagagg ccagggaaac ggcgcggcgg ctgctgaccc actacgtgaa    1740
ggtgcagggc ctggtcatat cacagatgct gcgcaagagc gtggagactc gcgactggct    1800
cagcactctg gagccccgga atgtgcgggc cgtcatgaag cgggtggtgg aggataccac    1860
cgccatcgac gtgcaggtgc tgcccaggct ggccggggta gccctgacgc aggctggggg    1920
tactgtccct tcaagagggg ctggggcagc agaggatcac tggcagtccc tgcctggagg    1980
```

5441

```
aggggacatg tgtatctggg cttctcacgg ggccagttct gtagccaggg cgtccgtgag    2040
ggaaccccag gggaacaagt ctccaaggat gaataccaaa cgggctgggg agtgcctatg    2100
tccacggtct tgttccttct cagcccagga ttatgacatc ttcgccccta ttttacctgt    2160
ggagaagcag aggctcaggg ttacccagga agtcagggca gggttggtgc tggtgctgaa    2220
gattagacct cagaccaact cttgtatcct gcctttgccc cactccactg gttctataaa    2280
tagcgaccat gtacctacta aatagcgggc cccgcggtga ttaccctgtg atccttgtna    2340
tgcttgagta gctgacttag ggcatcctca gcaccgatgg gcttggtggt ttccctga     2399
```

```
<210> 6777
<211> 1189
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (259)...(110)
<223> similar to gi3093367 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

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      <400> 6777
tttttttttt ttagcacttg ggaaccagct ttatttctga tttttttttt tttatcagag      60
tataaaaaag tgagtgcagc aaaacaagga agacgagaca ggcgtgcgtg ggccagggca     120
agacagagga gaagggaggg aagcagaggc agaagggccc cttggcgcaa ggctgtatgg     180
tgtggaggcg ggcagaatac ttgcgcagcc acacaggggc agggatgagg gtctccccgt     240
ggtgggggct tacaggatgg gagcggccag gccagttgtc caaattccac ctgggacctg     300
cagtgaccag cctcgagtct ggaggctcaa agcacacaga ggggactagg ggctcagcct     360
catctgtccc tgagattttc agaagccaca gggggactgg gagagggcag aggcgcaaga     420
gggtggaggc ggctagggcc gccctcactg tccttccgcc aggcagcacc agccccaaac     480
cacccagaga ggggttgctc aggcctctgg gagggtgtaa ggggagtggc cctgggaagg     540
cctctcccct gaatccaggc cttcttggga aagcagcaat gggaaggccc acgcacaagg     600
cccttgttct tgagggcgag aggggggaag accataaaag caagattttc ccaaagatag     660
ggcagggagc actgctaagc ctgggccctg ggcgcggagc cacctggaca gggctggggt     720
tctcgttgtg ccacattttg tctctggcgc ttggtcaatc tggtcctttc tcagctttac     780
ttctcatgaa tagaggggggt gtggtgacga tgtataaata atgatgaaag tgcttggcat     840
ggtgcccgtt aggcgggtgc tgatggccac tactctagat gatgggttgg cctgctgggc     900
cctggcaggt gcatgggcac aagccacagg gagccgaggc agcttatggt acctgtgtgg     960
gccaacctgg aggtgctggg gaacgaccta gaactgggct gggtgggtgg acagacaagt    1020
gactcagcag gcgatggggg accgacatca cgtggagagg ggaatgtaaa taaacagact    1080
ccctgggagt ctagggggga catccaaacc ggttctggct ccaggcagct gccccacatg    1140
ctgccagctg caccagggga gggcttgggc tcaggtccca ggaggtggg               1189
```

```
<210> 6778
<211> 3885
<212> DNA
<213> Homo sapiens
```

```
<400> 6778
cagggtggtg aactaaaaaa gctggttcct gtgaaccttg ggaaaatggt cctcaacccc      60
ctcctgaagc ccctggaaga tgaacctgat ggggccagct aggaggtcca aatggaagga     120
ctgcaaataa aaggcactgg gaactctcag gggccacaca catgtgagat cttcccaata     180
aaatcagcct tagctttaaa accaggaaat tgttagcaac aggctctcac cttcctccaa     240
cacccacagc attgcctatc tccctgtgat agcttgattc taaagataac agcctgcctt     300
tactcagaaa ccaggactgt gacgtgtttt gcacacattc tcttttcact ttcacagtgt     360
gtgaatatgg catgcaactt atgttctctg tgcctcagtt tactcaagtg ttaaacagga     420
atactcacat gaggattaca tgagttaaaa tggataaaat ggataaaagt agagagtaaa     480
ttatttaaac tttatcaaat ccttggtaca tgaccttaat acaattaagt atttgttaaa     540
tacatacatt ttaaagaaac gtcatcatat ccacacacct atgaggcacc tgcccaggac     600
cacagagcca atcaatcagg tgatgagtga ttccaggcca gcaggaaacc accgcccact     660
gacacaggga ctgcaccatc catccttggt ttgcatggtg cctgccatgc ttcctgtatt     720
actgttaaat acatggggca ggcctttgga ggatcccaat gttttaaaag ggcaatacga     780
atatgattct aatacataaa aagtatgagg gcagcaagaa tttagttaca aaacccaaaa     840
atcctcaaag agaagccaca tagcactgtg cagtgttacc actgcctcga gtctggacag     900
ggcacaggtg accgagacaa gtcttattta actgatttca caagaagggt ccgagtttta     960
ttagacaacc catgtcaagg tacaaaatga ttaatgacaa tatcagccat attctattag    1020
ccaagtgcca cctgtcacta tgaaactatc ctgtaggaca tccctgggct ctcagttgct    1080
aatgggctgc tgaagaaatg aatgtcctca aatcgagacc ctaacacaaa gagattccag    1140
agagtggctt agaaaaccca gctactctta ccaatgtggg gaaagggtca ggggaatgaa    1200
cctctgcagg acaatttgaa ttcccaaact gagtaagagc gaaacaaata tgcaggcaag    1260
gcaaagcctc agggggggctc ctgggtctgg ggcagggggt gggagacagg agaggcaaaa    1320
tggcagggac ttgacagcag gttcctcttg tctacttctt cctcccgcct ctctccttga    1380
gggccaggtg gatgactgcg ccattggcca tgttgtagta agccagtgag ttggaatctt    1440
tgatgaagat accctcatac tgtagcttct gtttccctgc aggcatgcct gtggcttcat    1500
gaatcttcac cttaatgaca gagacctggt ccgtgagtgg gagggtgaag accagcacct    1560
gcccattcag tttccattcc gtcttatcct gcatgttggg cacctggact ttgatggaca    1620
ctggacccct gtttctgcgc aggaactcct cctctggcat gaggctgtcc tctgtcttca    1680
gtttttttgga ggtgggctca tcttccatgg gaggtggggg atgcacaggg ggcattgggg    1740
ctggagctgg gacaggtgcc acaggtggag caggcacaaa ggctgttggc acaatcatgg    1800
ggggtgggcg ggggccata ataggagggg ccgagggagg catgggcacc cacgttgatt    1860
ctgggcgcgt ggatgatggg cggcatgggg gcgatcactg agcctggggg cagccggacc    1920
acagatgcca ttgggggccg gggcatgacg ggtactgcgg agacaactgt agtacgaact    1980
ggaggtggca ttgtgggtgg tcgggcact gaagtgatgg gtggagccga gctggggatg    2040
ttggtggctg aagatggtgg cggtggctgt tgagggattt cattgggctt gctggggcca    2100
atcttctctt tagtgtcatc ctctggcacc aggcctttgg ccttgtgaat ggcctcaatc    2160
tgctcctgga gggtgatgtt ggcctgggca gcctgctggg tccgggccat gctgcctgag    2220
tggccatccc aggtcacctt ttcctctggc ttctggatct cctcctcacc gatcttctta    2280
ccaatggctg tttcctctac accgaagatg tcagtacgcc gctcagccaa ctgcttcaag    2340
ctgctctcaa tatccagacc tggtgcgtac acctcatcat cgctctgctt ctcacggatg    2400
gagcgatccc gctgctccag ccagcgaggg tcaagaagtc caatgcgcat gtgttcctgc    2460
attttgctgg cggggatctt ctccccagta atggggaca caagatactc atctggagca    2520
ggggctggag gcaagggctt ggaggctttg ggatcataat ccttgcggac aatgacttgg    2580
tctggagttg ggggcagagg tggaggcatg ggtgtctctg ggggtggggg cactttctgc    2640
ccttcttctt catcatctga accctcatcc atatcttgta cttgggtgtc ctggtccagc    2700
tgggaaggag gctcctccgc cttctcctgt ttgtcatcct cctcatcaga ctcgacctcc    2760
atctcaactt cctcactctc cccaaacttt tcatagcgct cctgaatgag gattcgggcc    2820
```

                                 5443

```
cccagctcct ctggcgtggt gggggagggg aagttccctt gctcattggg ttggaagtcc    2880
actgtttcca ccaccacaaa atcatgccag tcgatctgag cataggccac ccgctccttc    2940
tccttctcct cttcttcctt cttcctctca cgttcctgga atttggccca ttccactcgg    3000
taacacacct gatccaaaac ttctcggggg ttttcagcct cttcttgag  ctttgaaaat    3060
aaacctttgg gtggaatcaa gatcttggtg tactgttcca ctagcttcgt gaagtagttg    3120
aagaggctgt gctgtgggcg gagaaagtca aactggtagt tgcgctgctc tttctgcatc    3180
agctgggtca gaaactggcg cccattcctg gccacaaatt gagccgtcag cttcaccaca    3240
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tctttgggca cgatggtctc ttggattact tgggcttgga ccttctgggg cagctgctgc    3360
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ttcccttcct tgaactcgct gaccttgtgg cggtagtagg catggtaagg gtcattgggg    3480
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gggtaaataa tccccacaac tggcttagaa ggtgcagaat cctcctttga agatgcttct    3660
tcttctgtgg gctgtttggg ctccgtgggc acgggcggcg gcggggggcac cgcctgcacg    3720
ggtccggccg gcatgactgc gacgctcagg gctgccagtc cgcctcggtg tcggtgagcg    3780
gtgccgcctc aagacagcct ccccgctcgg tcagtacgac gagctcgcaa gatggcggcg    3840
gccgagcgag ttgccggggg ggggggatt  aatttaatta aggat             3885
```


<210> 6779
<211> 6309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (74)...(5427)
<223> similar to gi5911999 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6779

```
gattgtttga atttgaaaac ggtaacatcg cagtgctgct cgcgggtctg gctagtcagg      60
cgaagtttgc agaatggaat ctaattttaa tcaagaggga gtacctcgac catcttatgt     120
ttttagtgct gacccaattg caaggccttc agaaataaat ttcgatggca ttaagcttga     180
tctgtctcat gaattttcct tagttgctcc aaatactgag gcaaacagtt tcgaatctaa     240
agattatctc caggtttgtc ttcgaataag accatttaca cagtcagaaa aagaacttga     300
gtctgagggc tgtgtgcata ttctggattc acagactgtt gtgctgaaag agcctcaatg     360
catccttggt cggttaagtg aaaaaagctc aggggcagat gggcacagaa attcagtttt     420
ttcccaggtt ttttgggccc agcaactaca cagaaggaat tctttcaggg ttgcattatg     480
caccccagta aaagacctct tgaaaggaca gagtcgtctg attttactt  acgggctaac     540
caattcagga aaaacatata catttcaagg gacagaagaa aatattcgca ttctgcctcg     600
aactttgaat gtattatttg atagtcttca agaaagactg tatacaaaga tgaaccttaa     660
accacataga tccagagaat acttaaggtt atcatcagaa caagagaaag aagaaattgc     720
tagcaaaagt gcattgcttc ggcaaattaa agaggttact gtgcataatg atagtgatga     780
tactctttat ggaagtttaa ctaactcttt gaatatctca gagtttgaag aatccataaa     840
agattatgaa caagccaact tgaatatggc taatagtata aaattttctg tgtgggtttc     900
tttctttgaa atttacaatg aatatatta  tgacttattt gttcctgtat catctaaatt     960
ccaaaagaga aagatgctgc gcctttccca agacgtaaag ggctattctt ttataaaaga    1020
tctacaatgg attcaagtat ctgattccaa agaagcctat agactttaa  aactaggaat    1080
aaagcaccag agtgttgcct tcacaaaatt gaataatgct tccagtagaa gtcacagcat    1140
```

                                    5444
```

```
attcactgtt aaaatattac agattgaaga ttctgaaatg tctcgtgtaa ttcgagtcag    1200
tgaattatct ttatgtgatc ttgctggttc agaacgaact atgaagacac agaatgaagg    1260
tgaaaggtta agagagactg ggaatatcaa cacttcttta ttgactctgg gaaagtgtat    1320
taacgtcttg aagaatagtg aaaagtcaaa gtttcaacag catgtgcctt tccgggaaag    1380
taaactgact cactattttc aagttttttt aatggtaaag ggaaaatttg tatgattgtc    1440
aatatcagcc aatgttattt agcctatgat gaaacactca atgtattgaa gttctccgcc    1500
attgcacaaa aagtttgtgt cccagacact ttaaattcct ctcaagagaa attatttgga    1560
cctgtcaaat cttctcaaga tgtatcacta gacagtaatt caaacagtaa aatattaaat    1620
gtaaaaagag ccaccatttc atgggaaaat agtctagaag atttgatgga agacgaggat    1680
ttggttgagg agctagaaaa cgctgaagaa actgaagatt aggggaaact aaacttcttg    1740
atgaagatct agataaaaca ttagaggaaa ataaggcttt cattagccac gaggagaaaa    1800
gaaaactgtt ggacttaata gaagacttga aaaaaaaact gataaatgaa aaaaaggaaa    1860
aattaacctt ggaatttaaa attcgagaag aagttacaca ggagtttact cagtattggg    1920
ctcaacggga agctgacttt aaggagactc tgcttcaaga acgagagata ttagaagaaa    1980
atgctgaacg tcgtttggct atcttcaagg atttggttgg taaatgtgac actcgagaag    2040
aagcagcgaa agacatttgt gccacaaaag ttgaaactga agaagctact gcttgtttag    2100
aactaaagtt taatcaaatt aaagctgaat tagctaaaac caaaggagaa ttaatcaaaa    2160
ccaaagaaga gttaaaaaag agagaaaatg aatcagattc attgattcaa gagcttgaga    2220
catctaataa gaaaataatt acacagaatc aaagaattaa agaattgata aatataattg    2280
atcaaaaaga agatactatc aacgaatttc agaacctaaa gtctcatatg gaaaacacat    2340
ttaaatgcaa tgacaaggct gatacatctt ctttaataat aaacaataaa ttgatttgta    2400
atgaaacagt tgaagtacct aaggacagca aatctaaaat ctgttcagaa agaaaaagag    2460
taaatgaaaa tgaacttcag caagatgaac caccagcaaa gaaagggtct atccatgtta    2520
gttcagctat cactgaagac caaaagaaaa gtgaagaagt gcgaccgaac attgcagaaa    2580
ttgaagacat cagagtttta caagaaaata atgaaggact gagagcattt ttactcacta    2640
ttgagaatga acttaaaaat gaaaaggaag aaaaagcaga attaaataaa cagattgttc    2700
attttcagca ggaactttct ctttctgaaa aaaagaattt aactttaagt aaagaggtcc    2760
aacaaattca gtcaaattat gatattgcaa ttgctgaatt acatgtgcag aaaagtaaaa    2820
atcaagaaca ggaggaaaag atcatgaaat tgtcaaatga gatagaaact gctacaagaa    2880
gcattacaaa taatgtttca caaataaaat taatgcacac gaaaatagac gaactacgta    2940
ctcttgattc agtttctcag atttcaaaca tagatttgct caatctcagg gatctgtcaa    3000
atggttctga ggaggataat ttgccaaata cacagttaga cctttttaggt aatgattatt    3060
tggtaagtaa gcaagttaaa gaatatcgaa ttcaagaacc caataggggaa aattctttcc    3120
actctagtat tgaagctatt tgggaagaat gtaaagagat tgtgaaggcc tcttccaaaa    3180
aaagtcatca gattgaggaa ctggaacaac aaattgaaaa attgcaggca gaagtaaaag    3240
gctataagga tgaaaacaat agactaaagg agaaggagca taaaaaccaa gatgacctac    3300
taaaagaaaa agaaactctt atacagcagc tgaaagaaga attgcaagaa aaaaatgtta    3360
ctcttgatgt tcaaatacag catgtagttg aaggaaagag agcgctttca gaacttacac    3420
aaggtgttac ttgctataag gcaaaaataa aggaacttga aacaattta gagactcaga    3480
aagttgaacg tagtcattca gccaagttag aacaagacat tttggaaaag gaatctatca    3540
tcttaaagct agaaagaaat ttgaaggaat ttcaagaaca tcttcaggat tctgtcaaaa    3600
acaccaaaga tttaaatgta aaggaactca gctgaaaga agaaatcaca cagttaacaa    3660
ataatttgca agatatgaag catttacttc aattaaaaga agaagaagaa gaaaccaaca    3720
ggcaagaaac agaaaaattg aaagaggaac tctctgcaag ctctgctcgt acccagaatc    3780
ctgaacgcag atcttcagag gaaggaagaa gattatgctg acctgaaaga gaaactgact    3840
gatgccaaaa agcagattaa gcaagtacag aaagaggtat ctgtaatgcg tgatgaggat    3900
aaattactga ggattaaaat taatgaactg gagaaaaaga aaaaccagtg ttctcaggaa    3960
ttagatatga agcagcggaa ccattcagca actcaaggag cagttaatta atcagaaagt    4020
ggaagaagct atacaacagt atgagagagc atgcaaagat ctaaatgtta aagagaaaat    4080
aattgaagac atgcgaatga cactagaaga acaggaacaa actcaggtag aacaggatca    4140
agtgcttgga ggctaaattg gaggaagttg aaaggctggc cacagaattg gacagatgga    4200
gggtaaaatg caatgatttg gaaaccaaaa acaatcaaag gtcaaataaa gaacatgaga    4260
acaacacaga tgtgcttgga aagctcacta atcttcaaga tgagttacag gagtctgaac    4320
agaaatataa tgctgataga aagaaatggt tagaagaaaa aatgatgctt atcactcaag    4380
cgaaagaagc agagaatata cgaaataaag agatgaaaaa atatgctgag acagggagc    4440
gttttttaa gcaacagaat gaaatggaaa tactgacagc ccagctgaca gagaaagata    4500
gtgaccttca aaagtggcga gaagaacgag atcaactggt tgcagcttta gaaatacagc    4560
```

5445

```
taaaagcact gatatccagt aatgtacaga aagataatga aattgaacaa ctaaaaagga    4620
tcatatcaga gacttctaaa atagaaacac aaatcatgga tatcaagccc aaacgtatta    4680
gttcagcaga tcctgacaaa cttcaaactg aacctctatc gacaagtttt gaaatttcca    4740
gaaataaaat agaggatgga tctgtagtcc ttgactcttg tgaagtgtca acagaaaatg    4800
atcaaagcac tcgatttcca aaacctgagt tagagattca atttacacct ttacagccaa    4860
acaaaatggc agtgaaacac cctggttgta ccacaccagt gacagttaag attcccaagg    4920
ctcggaagag gaagagtaat gaaatggagg aggacttggt gaaatgtgaa aataagaaga    4980
atgctacacc cagaactaat ttgaaatttc ctatttcaga tgatagaaat tcttctgtca    5040
aaaaggaaca aaaggttgcc atacgtccat catctaagaa aacatattct ttacggagtc    5100
aggcatccat aattggtgta aacctggcca ctaagaaaaa agaaggaaca ctacagaaat    5160
ttggagactt cttacaacat tctccctcaa ttcttcaatc aaaagcaaag aagataattg    5220
aaacaatgag ctcttcaaag ctctcaaatg tagaagcaag taaagaaaat gtgtctcaac    5280
caaaacgagc caaacggaaa ttatacacag gtgaaatttc atctcctatt gatatatcag    5340
gccaagtgat tttaatggac cagaaaatga aggagagtga tcaccagatt atcaaacgac    5400
gacttcgaac aaaaacagcc aaataaatca cttatggaaa tgtttaatat aaattttata    5460
gtcatagtca ttggaacttg catcctgtat tgtaaatata aatgtatata ttatgcatta    5520
aatcactctg catatagatt gctgttttat acatagtata attttaattc aataaatgag    5580
tcaaaatttg tatatttta taaggctttt ttataatagc ttctttcaaa ctgtatttcc    5640
ctattatctc acacattgga tcagtgaaga tcctaggaaa gaggctgtta ttctcattta    5700
ttttgctata caggatgtaa taggtcaggt atttggttta cttatattta acaatgtctt    5760
atgaattttt tttactttat ctgttataca actgattta catatctgtt tggattatag    5820
ctaggatttg gagaataagt gtgtacagat cacaaaacat gtatatacat tatttagaaa    5880
agatctcaag tctttaatta gaatgtctca cttattttgt aaacattttg tgggtacata    5940
ggacatgtat atatttacgg ggtatgtgag atgttttgac acaggcatgc aatgtgaaat    6000
acctgtatca tggagaatga ggtatccatc ccctcaagca tttttccttt gaattacaga    6060
taatccaatt acattcttta gatcatttaa aaatatacaa gtaagttatt attgattata    6120
gtcactctat tgtgctatca gatattaaat cattcttttt atcttatttg tttttgtacc    6180
cattaaccat ccccacctcc ccctgcaacc gtcagtaccc ttaccagcca ctggtaacca    6240
ttcttctact ctgtatgccc atgaggtcaa ttgattttat ttttagatcc cataaattcg    6300
acgcggccg                                                            6309
```

<210> 6780
<211> 2676
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (108)...(1859)
<223> similar to gi2463531 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6780
```
gtccgtaatt gccgggtcga cgatttcgtg tctgacagag gaggctccgt gtctgcagct     60
agtgtgtcaa ctcagcgttt ctcctctcgt ccctggaaga gctaaagatg gctgaatttc    120
tagatgacca ggaaactcga ctgtgtgaca actgcaaaaa agaaattcct gtgtttaact    180
ttaccatcca tgagatccac tgtcaaagga acattggtat gtgtcctacc tgtaaggaac    240
catttcccaa atctgacatg gagactcaca tggctgcaga acactgtcag gtgacctgca    300
aatgtaacaa gaagttggag aagaggctgt taaagaagca tgaggagact gagtgccctt    360
tgcggcttgc tgtctgccag cactgtgatt tagaactttc cattctcaaa ctgaaggaac    420
```

```
atgaagatta ttgtggtgcc cggacggaac tatgtggcaa ctgtggtcgc aatgtccttg    480
tgaaagatct gaagactcac cctgaagttt gtgggagaga gggggaggaa aagagaaatg    540
aggtttgcca tacctcctaa tgcatatgat gaatcttggg gtcaggatgg aatctggatt    600
gcatcccaac tcctcagaca aattgaggct ctggacccac ccatgaggct gccgcgaagg    660
cccctgagag cctttgaatc agatgttttc cacaatagaa ctaccaacca aaggaacatt    720
acagcccagg tttcaattca gaataatctg tttgaagaac aagagaggca ggaaaggaat    780
agaggccaac agccccccaa agagggtggt gaagagagtg caaacttgga cttcatgttg    840
gccctaagtc tgcaaaatga aggccaagcc tccagtgtgg cagagcagga cttctggagg    900
gccgtatgtg aggccgacca gtctcatggc ggtcccaggt ctctcagtga cataaagggt    960
gcagctgacg agatcatgtt gccttgtgaa ttttgtgagg agctctaccc agaggaactg   1020
ctgattgacc atcagacaag ctgtaaccct tcacgtgcct taccttcact caatactggc   1080
agctcttccc ccagaggggt ggaggaacct gatgtcatct tccagaactt cttgcaacag   1140
gctgcaagta accagttaga ctctttgatg ggcctgagca attcacaccc tgtggaggag   1200
agcatcatta tcccatgtga attctgtggg gtacagctgg aagaggaggt gctgttccat   1260
caccaggacc agtgtgacca acggcccaac cactgcaacc aaccatgtga caaaggggat   1320
tcctagactg gattcccagc ctcaagagac ctcaccagag ctgcccagga ggcgtgtcag   1380
acaccaggga gacctgtctt ctggttacct ggatgatact aagcaggaaa cagctaatgg   1440
gccacctcc tgtctgcctc ccagccgacc cattaacaat atgacagcta cctataacca   1500
gctatcgaga tcaacatcag gccccagacc tgggtgccag cccagctctc cttgtgtgcc   1560
gaagctcagc aactcagaca gccaggacat ccaggggcgg aatcgagaca gccagaatgg   1620
ggccatagcc cctgggcacg tttcagtgat tcgccctcct caaaatctct acccagaaaa   1680
cattgtgccc tctttctccc ctgggccttc agggagatac ggagctagtg gtaggagtga   1740
aggtggcagg aattcccggg tcacccctgc agctgccaac taccgcagca gaactgcaaa   1800
ggcaaagcct tccaagcaac agggagctgg ggatgcagaa gaggaagagg aggagtaatg   1860
gtgtctccag agactttaca tcggttcctg gcttctgtgc acagcagcac ttgccgctgt   1920
gcaggcccac ctctttggct ctttgggtgg gagagttttt ccagattta gatttttcta   1980
ggttatggcc attttgtgtc ttttgaggtt gtgctgtggg ggtttgggtt tgagggaagg   2040
gagcagggtg gcggttgagg aacgcttcag ccttagctgc tacctttcgg cagcagtgaa   2100
atacaagctg cagcctcggc tgccagggct cccttttgac ttattgtcgc cactgcccct   2160
tggtgctgtg tggtcccagt ggaaggaggg gaagattttg gaaacctggt agccaccagt   2220
aaggtgattc tctgccctgt tggggcctaa atttgggggc ttttgggcaa cctctccgtg   2280
tactgcgtct gtccacactc gattgggccc caggtgtgta tgaggcgctc tggtaaggtg   2340
ctcaggccag ttgcaatgtc tgtcagtaac gaggcttttg atgtgttgag ctggaggtga   2400
gtggaccggg ggctgtgttt taagctgctt ccttggcatt tggcatcact gccttctggt   2460
tcccggggga gcatggatct tttgtcctca ctgctttcta atggggaggg ctgagggctc   2520
cctgtcccca cagcaggtat gttgggctct gccccagccc cacacttgct ttgaaaacca   2580
agtgtcagag ccccttcccc ttgtttttat tttactgtta taataattat taacttcctt   2640
gtaatagaaa taaagtttgt acttggagtt cagctc                             2676
```

<210> 6781
<211> 2174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2086)...(630)
<223> similar to gi56332 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

5447

<400> 6781

```
tttttttttt ttcatgccaa tgaatttatt gaaacggagg tctgtacaca ggcaaacctg      60
tactgtggaa actaagacat caggagctct ctccactccc ctggccctcc agggtggggt     120
gaggagggag tagaccttgg gggcagagga caggagggga gttacagctg taggaggggc     180
ggggccaggt tggacggtgc gaatcgacgt tttctttaag aaaaaaatta taacaatcta     240
tttacacccg ggggccaggg aagggaagag gagacgggct gggctggttc tatttacaag     300
ggacacacag aggggagggg gtctggagga ggtgaaaatc tgggggaggt ggaaagggcc     360
aaggggggtaa ggaagtcctc atcccccaa cacccctgtc cttctcttcc cctcccccac     420
aaccagttta aaatcctcct taaaaagccc caccacaggg gtgaggctgg tgagggaggg     480
actggaggtg gggacaggga ctcatttacc tctgccctct agtctagggg cccagccagg     540
gcaggagctt gatgggctat ggccccccctt cccagcccct cttggggctc ccagatggaa     600
gtggaagggt gcttggtggg gccctcagga ggagttagtg agggtaggtg tggcatcggt     660
cgactgccag tctgagctgg tcggagtctc agttaaagct tgtgaggacg gggtgaaggg     720
tggtagtgcc cgctggggaa cctccaagtg aaggagggat gagaatggcg ttgagagacg     780
gttggattgg agagttcacc agcactgaag ttgaagagag ggggaagtgg gcggttgtta     840
ggcagctggg ttcccagaca tcgcagttca tcaaagaagc tgtgcgcaca ggcctctagt     900
ggggagagcc ttgaggatgg ggtgtactcc cagcaggcta gagcagagcg cgatggcctc     960
tggcggcgtt cgagatttga acacttttgt cccagggggtg agctttaatc tgagggaact    1020
tgaactccgt gtagttgggg ttcatctctc ggatttgttc ccgggttggt gttcccagca    1080
ccttgatgat ctccaccagc tggtccaccc cactgtcccc agggaagatg ggctggccca    1140
agaggagctc tgccagtaca cagccagctg accaaacatc gatggatgag gtgtaatcag    1200
tggctccaaa gatgagctct ggggcccggt agtagcgaga acagatgtag gagacattgg    1260
gctcccctcg gaccaactgc tttgcactgc caaaatcgca gagcttgagg acagcagtgt    1320
cagggtccac cagcaggttc tggggcttga tgtcgcggtg acacacgccc tgggagtgga    1380
tgtaggccaa gctgcggaag agctggtaca tgtacacctt gacatagagg atagggatgg    1440
tcaacttggc cttggtgaag tggcgggcca cccggtacac tgtctcgggc acatattcca    1500
gcaccagatt taggtaaagc tcgtctttct tctcgccact ggagtagaaa aagtatctca    1560
gcctcacaat attgcagtgg tccagcttac gcatgatctg cagctctcgg ttcttgaacc    1620
tcttgtcctg gagaaccttc ttgatggcga ctagttccct ggtctctgcc agccgtgcct    1680
ggtacacgac cccaaatgag ccattgccaa tcactttgat gtccgtgtaa gccacttctt    1740
gggagcgctc tgggccttgg cctagagtgg ctacgactgt ggtcaccttc ccgctgtcac    1800
ggcccagctt cacccccgggc ggcgggaagc tagtgcctgc gccggggcct ccgctgcctc    1860
ctccgccgct gccgccgggt ccacccccgg agctcgaggc cccgacgccc ccacccatgg    1920
ccccgacaga tgcctttccg ccgccggtgc cgcctgggcc ggaggccgag cctccgggggc    1980
cgccgccgcc tcctccgcct ccgccgccgg gctccgcgaa cgagctagtc cgcgccctgc    2040
ccgagccccc agggccgcct cccgaaggcc cgccgccgct catggcgccg agcacaggcc    2100
caggctgcgg ggctcgggct gcccgggctg ccccagccgc cgccgcggcc gccgcctccc    2160
ccggagccca agcc                                                       2174
```

<210> 6782
<211> 1409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(952)
<223> similar to gi4885696 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6782
```
gcgcccgccg ccatgtcggt gctgggcgag tacgagcgac actgcgattc catcaactcg      60
gactttggga gcgagtccgg gggttgcggg gactcgagtc cggggcctag cgccagtcag     120
gggccgcgag ccggcggcgg cgcggcggag caggagggaa ctgcactaca tccccatccg     180
cgtcctgggc cgcggcgcct tcggggaagc cacgctgtac cgccgcaccg aggatgactc     240
actggttgtg tggaaggaag tcgatttgac ccggctgtct gagaaggaac gtcgtgatgc     300
cttgaatgag atagttattc tggcactgct gcagcacgac aacattattg cctactacaa     360
tcacttcatg gacaatacca cgctgctgat tgagctggaa tattgtaatg gagggaacct     420
gtatgacaaa atccttcgtc agaaggacaa gttgtttgag gaagagatgg tggtgtggta     480
cctatttcag attgtttcag cagtgagctg catccataaa gctggaatcc ttcatagaga     540
tataaagaca ttaaatattt ttctgaccaa ggcaaacctg ataaaacttg gagattatgg     600
cctagcaaag aaacttaatt ctgagtattc catggctgag acgcttgtgg gaaccccata     660
ttacatgtct ccagagctct gtcaaggagt aaagtacaat ttcaagtctg atatctgggc     720
agttggctgc gtcatttttg aactgcttac cttaaagagg acgtttgatg ctacaaaccc     780
acttaacctg tgtgtgaaga tcgtgcaagg aattcgggcc atggaagttg actctagcca     840
gtactctttg gaattgatcc aaatggttca ttcgtgcctt gaccaggatc ctgagcagag     900
acctactgca gatgaacttc tagatcgccc tcttctcagg aaacgcagga gagagatgga     960
ggaaaaagtc actctgctta atgcacctac aaagagacca aggtcaagca ctgtgactga    1020
agcacccatt gctgtagtaa catcacgaac cagtgaagtc tatgtttggg gtggtggaaa    1080
atccaccccc cagaaactgg atgttatcaa gagtggctgt agtgcccggc aggtctgtgc    1140
agggaatacc cactttgctg tggtcacagt ggagaaggaa ctgtacactt gggtggtaag    1200
tgaacgctaa gcattttgga acagtgctgt aagcctaatt gtttactggg cccacgatgt    1260
ctaagcattt tattagttga acctatacta agggagtggc aacatggggt gatggaatgg    1320
aagctcttat aagagcaggg attttgtctg tttagttcac tgatgtatgc ccagggctgg    1380
tacatattag gtcacctata aatgttttt                                      1409
```

<210> 6783
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)...(658)
<223> similar to gi6013321 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6783
```
ccttcccaat ctgtctcccc agaagacaca ggaaacaatg cattgccttt gattgctggg      60
cagacctggg gttccaggcg ggcagcagct gcaggctgac cttgcagctt ggcggaatgg     120
actggcctca caacctgctg tttcttctta ccatttccat cttcctgggg ctgggccagc     180
ccaggagccc caaaagcaag aggaaggggc aagggcggcc tgggcccctg gcccctggcc     240
ctcaccaggt gccactggac ctggtgtcac ggatgaaacc gtatgcccgc atggaggagt     300
atgagaggaa catcgaggag atggtggccc agctgaggaa cagctcagag ctggcccaga     360
gaaagtgtga ggtcaacttg cagctgtgga tgtccaacaa gaggagcctg tctccctggg     420
gctacagcat caaccacgac cccagccgta tccccgtgga cctgccggag cacggtgcc      480
tgtgtctggg ctgtgtgaac cccttcacca tgcaggagga ccgcagcatg gtgagcgtgc     540
cggtgttcag ccagggttcc tgtgcgccgc cgcctttgcc cgccaccgcc ccgcacaggg     600
ccttgccgcc agcgcgcagt catggagacc atcgctgtgg gctgcacctg catcttctga     660
atcacctggc ccagaagcca ggccagcagc ccgagaccat cctccttgca cctttgtgcc     720
```

<210> 6784
<211> 1165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1027)...(223)
<223> similar to gi4689124 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6784

```
ttttttttt  ttagtttaaa  aaatatttat  tatagaaatg  tacatttaat  tagttttaag    60
gaatgtacct  gaccacagtg  ttaatatata  tttcttcaaa  tttgcaaact  ttacacctt    120
aagatatcta  caaagatgat  agtttattta  caagttttac  aagaaatgat  cacttcacaa   180
tactgttgac  acagttacga  ttgaatcttc  ttctcacttt  ttatttcact  ctgtacttat   240
agaaagaaca  gagagtatgg  gtgaagttcc  atcccagtgc  cagggaaagc  ccgtagagca   300
gaatcagagg  tgcaaatgga  tacagaagaa  ttactgtatt  tttcaaaaat  ggcaatgctg   360
gaaaagaaaa  ggagtccaac  actgtatccc  aggaaagtta  catagatata  atagccaact   420
gcaaccaacc  ataaggtatt  tccaactaaa  tatccaataa  atgtgtctgt  caggataaca   480
tggttgatga  aaaaaagctg  gataaaatgc  aaaatgacca  ggagtggata  aaaagcattg   540
agatgcacat  caaaagcata  gccccattcc  acatcatagt  ctctgctctg  tcgtttcact   600
aaatacttgt  tagagatgaa  ccacattaaa  gttgctatca  gaagaccaac  gcctacacaa   660
tctatgagta  caacccaaag  gagaagcttt  attgtctcaa  agaatcccat  gtccagcaca   720
aagccaaatc  ctatagtgga  cacacagagc  cagatactta  acaggaccaa  gaaagcaggg   780
tcatctctgg  cccactggtc  cttcgtctgt  tttcgataat  gaaaatttct  gtaaactctc   840
tgtggggatg  tgaacaggta  gagcatctgc  caggcagcaa  attcaaagtc  catttgccga   900
aagcggaaaa  gccttctcag  atatttgtag  cgtttcgctc  cggctgtgtg  tcttgccgca   960
tccctggaat  tcaagactcc  gttcccctgc  actaaggaat  tcactgaagt  actcggtaac  1020
atcttcctgg  agtcctgcta  cagcctcgac  ccacgtccga  accagcccac  cacctcctcc  1080
cagcagccga  ccccagccgc  caccgggcgg  gcttcccttc  cctcaacgga  gccggccctt  1140
ggggcgcgcc  gcgtcacggg  aaccg                                           1165
```

<210> 6785
<211> 2103
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2104)
<223> n = a,t,c or g

<220>

<221> misc_feature
<222> (1967)...(1068)
<223> similar to gi3252826 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6785
ggccccataa aaaaaatttt accttgccag cccgcggaag ttaaacttgg tcctctaaaa   60
cgggcccccct tttttttttt tttcaatgaa aacttttatt tactggtaaa atataaaaat   120
ccaggtctct taaatccaca caatctctcc aaatatttgg caagattgat tccaagtcca   180
tatgggtgga taacaagaac aaaggggtct ctgctcagag agacgtattg tcgttcagag   240
ttctgccctg cttccctcta aatgctcacc aacctggact cttctaaagt gggcagacaa   300
gccctattct aagcgtagga atagccccat ttgtgcgtga cactaagttc ctccaatggt   360
ccaaactgag cgtggatgac tatccaacat cacacacaaa tgcacatccc ctctctttac   420
aagacatgca gaatctcaag atatgtcaag atatgcagca agtttaatac ctgaaggtta   480
acataaatga caacaggaca cagatgcaat gctacagtca aatgtggttg gggatggaag   540
ggggcagagg gacactggat atcatcacag caaccagtga gtgagtcctc tggtgccctg   600
aggaggttgt gagccacttg actcgtgtca caaagaatgg agtaaactaa caactctgaa   660
agacaagagg gtggcagcat tgctgagatg agactcaagg cagggtctg cagctctgtc   720
acagagtgtt aatgctcaac gatgcctggg ctcaagagcg ttctggtcag cattttaaca   780
tcagaagaag ggcttcttca ggacacactc ccttctctta acatgaggtg aagaaaccca   840
tcccattctg aaaccaggtc ccataatacc ttggtctttt gatacacagc agcactacac   900
accactgtgc cccccagcca gcttcactct gtctgctaag cacccactct gcaaacagat   960
ctcagagtga acaaatccag aggaggtggg aggagccacc atggtgggat gtgagggaca 1020
ggagttggct ggaggagcag atgggtccca tgtcaggaac ctcctaggca tcatgaagat 1080
tgctatcact cagaagcacc ttttccccag gtttgaaggc tggcatccca aggtaggggc 1140
agctggcaca gcggaaggca tcgcccaggt agcagtttcc acaagctgac ttgggttggg 1200
agctcatctg ttcccttgac ttctctttt ccagttcttc ggcaaggcca caggtgcagt 1260
tcttacaggc cttcctcttt ttcccttccc cacaagaagc agcccgcagg gaagctggat 1320
ctggcttctt caaatcttct ggatccagca gctcatctga gtcaatgaga tccatgctgt 1380
cgtcctccat atcgttggct gagagggtcc accagcttgg cagcagcagg gtccacagca 1440
ggtttcactg aaggagaaga cttcttggtg atagaaagct taagctgcct agaagaaccc 1500
acttcaaagt ttggtttttt gcctgtgatc tgaacaaaca gcaggttgtc actttcatga 1560
ccaaggtgtt ctcgaacaga ctgtacttcc tcaggggtta ggggctcccg ctgcagctct 1620
ttcacttcca caagaccaga aagagtcagg gctgaacaca gcttagatgc tgtcttcact 1680
ttgctattgt tatctacagc tgtctctact ggctccttca gaaaaagaca tccaccaggc 1740
cgaaggatcc gggcgatttc agccaaaatc tcagcactgt gcagagtggt gcttcctggg 1800
actaaacatt gcaacagctg cttgatgttt tccacagaca cgcggccctc attgccggtt 1860
aacgcttgaa gcttatccac cagacctttc agagcctcca ctggggatga cttatcccag 1920
accactgcca caaactggcc agcagagatc ccaaaatctg ccattcttgc agtgcagtac 1980
tgacagacct aaaaactgct ggccaaaagg gaatcaagac tgncgcctgg gctcgctccc 2040
ggcttctctc cagccgtcga ctcncacgcc tcgcgctctc gcgagaggag ganggtccac 2100
gga   2103

        <210> 6786
        <211> 2739
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature

5451

<222> (438)...(1868)
<223> similar to gi3462515 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

      <400> 6786
agaggcgcga atgcgaacct ggcccgtgcg gaaagggcgc ggagagcccc ggcgcggagc   60
aggcggtaaa ctgaagataa caccaacttg gcagcgggag tttgtgtctt ctgtatgaaa   120
tctccctgcc tctgcacctg gttgagttgc tgtcattatt ttaggggacg gtattcagaa   180
ttcgagcgca ggagctccgc ttctccacct gctcccgggg agctattggg atccagagaa   240
tcacccgctg atggttttg cccaggcctg aaacaaccag agagctacgg gaaaggaagg   300
gcttggcttg ccagaggaat tttccaagtg ctcaaacgcc aggcttacgg cgcctgtgat   360
ccgtccagga ggacaaagtg ggatttgaag atccactcca cctctgctca tggcgggcca   420
gggcctgccc ctgcacgtgg ccacactgct gactgggctg ctggaatgcc tgggctttgc   480
tggcgtcctc tttggctggc cttcactagt gtttgtcttc aagaatgaag attactttaa   540
ggatctgtgt ggaccagatg ctgggccgat tggcaatgcc acagggcagg ctgactgcaa   600
agcccaggat gagaggttct cactcatctt caccctgggg tccttcatga caacttcat   660
gacattcccc actggctaca tctttgaccg gttcaagacc accgtggcac gcctcatagc   720
catattttc tacaccaccg ccacactcat catagccttc acctctgcag gctcagccgt   780
gctgctcttc ctggccatgc caatgctcac cattggggga atcctgtttc tcatcaccaa   840
cctgcagatt gggaacctat ttggccaaca ccgttcgacc atcatcactc tgtacaatgg   900
agcatttgac tcttcctcgg cagtcttcct tattattaag cttctttatg aaaaaggcat   960
cagcctcagg gcctccttca tcttcatctc tgtctgcagt acctggcatg tagcacgcac   1020
tttcctcctg atgccccggg ggcacatccc atacccactg cccccccaact acagctatgg   1080
cctgtgccct gggaatggca ccacaaagga agagaaggaa acagctgagc atgaaaacag   1140
ggagctacag tcaaaggagt tcctttcagc gaaggaagag accccagggg cagggcagaa   1200
gcaggaactc cgctccttct ggagctacgc tttctctcgg cgctttgcct ggcacctggt   1260
gtggctgtct gtgatacagt tgtggcacta cctcttcatt ggcactctca actccttgct   1320
gaccaacatg gccggtgggg acatggcacg agtcagcacc tacacaaatg cctttgcctt   1380
cactcagttc ggagtgctgt gtgccccctg gaatggcctg ctcatggacc ggcttaaaca   1440
gaagtaccag aaggaagcaa gaaagacagg ttcctccact ttggcggtgg ccctctgctc   1500
gacggtgcct tcgctggccc tgacatccct gctgtgcctg ggcttcgccc tctgtgcctc   1560
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cctctatggg agcaacgcgg ccttcctcac ccttgctttc ccttcagagc actttggcaa   1680
gctctttggg ctggtgatgg ccttgtcggc tgtggtgtct ctgctccagt tccccatctt   1740
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tgccattctt ctgacattct tccaccccctt tctggtatat cgggaatgcc gtacttggaa   1860
agaaagtccc tctgcaattg catagttcag aagccctcac tttttcagccc cgaggatggt   1920
tttgttcatc ttccaccacc tttgaggacc tcgtgtccca aaagactttg cctatcccag   1980
caaaacacac acacacac acacacac acacacaa aataaagaca cacaaggacg   2040
tctgcgcagc aagaaaagaa tctcagttgc caagcagatt gatatcacac agactcaaag   2100
caaaggcatg tggaacttct ttatttcaaa acagaagtgt ctccttgcac ttagccttgg   2160
cagacccttg actccagggg agatgacctg ggggaggaag tgtgtcaact atttctttag   2220
gcctgtttgg ctccgaagcc tatatgtgcc tggatcctct gccacgggtt aaattttcag   2280
gtgaagagtg aggttgtcat ggcctcagct atgcttcctg gctctccctc aagagtgcag   2340
ccttggctag agaactcaca gctctgggaa aaagaggagc agacagggtt ccctgggccc   2400
agtctcagcc cagccactga tgctggatga ccttggcctg accctggtct ggtctcagaa   2460
tcactttcc catctgtaaa attgagatga attttggtgt tgaaagttct tcctggagca   2520
gatgtcctag aaggttttag gaatagtgac agagtcaggc caccccaagg gccatgggag   2580
ccagctgacc tgcttgaccg aaggatttct gacagactat ctttggggat gttttcaaga   2640
agggatataa gttatttact ttgggcattt aaaagaaaat ttctctcggg aataattta   2700
tagaaaaata aagcttctgt gtctaaggca aaaaaaaa   2739

5452

<210> 6787
<211> 3756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (305)...(3756)
<223> similar to gi5733814 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6787
cacaagcatg cacagtgtga tgtggttcag aggcagcttc tagacctgca ggagggagat   60
tgtattcaga ggaagagcat cattttggca acatctgaaa gtgaaaacgg aagccagaaa   120
cacttggcca gccctggggg attttttttct tctatgcctc tctggtggaa tgacatttgc   180
tgtgtaggca tctttcctct gactgtattt cttggccttg aagagtactg agtttaaaaa   240
gacagtatgt gacagtccat ggaaattgcc tcttctgtga aatctcgcca cctgctccga   300
agacatgttg ttgtctccca aattctcctt atccaccatt cacatacgac tgacggccaa   360
aggattgctt cgaaaccttc gacttccttc agggtttagg agaagcactg ttgttttcca   420
cacagttgaa aagagcaggc aaaagaatcc tcgaagctta tgtatccagc cacagacagc   480
tcccgatgcg ctgccccctg agaaaacact tgaattgacg caatataaaa caaaatgtga   540
aaaccaaagt ggatttatcc tgcagctcaa gcagcttctt gcctgtggta ataccaagtt   600
tgaggcattg acagttgtga ttcagcacct gctgtctgag cgggaggaag cactgaaaca   660
acacaaaacc ctatctcaag aacttgttaa cctccgggga gagctagtca ctgcttcaac   720
cacctgtgag aaattagaaa aagccaggaa tgagttacaa acagtgtatg aagcattcgt   780
ccagcagcac caggctgaaa aaacagaacg agagaatcgg cttaaagagt tttacaccag   840
ggagtatgaa aagcttcggg acacttacat tgaagaagca gagaagtaca aaatgcaatt   900
gcaagagcag tttgacaact taaatgctgc gcatgaaacc tctaagttgg aaattgaagc   960
tagccactca gagaaacttg aattgctaaa gaaggcctat gaagcctccc tttcagaaat   1020
taagaaaggc catgaaatag aaaagaaatc gcttgaagat ttactttctg agaagcagga   1080
atcgctagag aagcaaatca atgatctgaa gagtgaaaat gatgctttaa atgaaaaatt   1140
gaaatcagaa gaacaaaaaa gaagagcaag agaaaaagca aatttgaaaa atcctcagat   1200
catgtatcta gaacaggagt tagaaagcct gaaagctgtg ttagagatca agaatgagaa   1260
actgcatcaa caggacatca agttaatgaa aatggagaaa ctggtggaca acaacagc   1320
attggttgac aaattgaagc gtttccagca ggagaatgaa gaattgaaag ctcggatgga   1380
caagcacatg gcaatctcaa ggcagctttc cacggagcag gctgttctgc aagagtcgct   1440
ggagaaggag tcgaaagtca acaagcgact ctctatggaa aacgaggagc ttctgtggaa   1500
actgcacaat ggggacctgt ggtagcccca agagatcccc cacatcctcc gccatcccct   1560
ttgcagtcac caaggaattt ccgggctcct tccctagccc cagcatttca cccagatgac   1620
acgtccccaa agtccacaga ctctctgaaa agcattttga tgcaggtct gcaggactga   1680
ccccaaggag gaacgtgggc acaaagaggt atatcagcac acgtgtgatc accgtagggt   1740
aaactggagc gtcaccaccg gcggaaatcg aagcttctga gactggaact ctggaggaag   1800
acttttgcct ccgtccaaaa gattcctcca aaaaaagatt taaaaaaaga tttcggcatc   1860
gacacggacg ttgttgcaca aagcacttaa agaacgagag catcttgttc attgccttttt   1920
tcacctaagc ataaggggaa aaactctcag ggccctatta agatttataa cctttgtaat   1980
gttcttcacc acagacacct tcttgtgagt tttcagtctg actgtggggg tggggggtgt   2040
gaatgaaatg gatgtcacag agtgtcatgt gtctgatgca gcctcctctg ctgtgtatta   2100
aatgtcaaaa tctgaatata tctggatatg tactaatcaa ataataatca atcaatcagc   2160
atatacattt cagccaaagc catagaagaa aaagcaatag ttgcttgaat tatgatcatc   2220
taccaccaac tctgctcagc cctgtaacag ggtagggaga gggtataaca ggaagagctt   2280
tgacttgtcc ctgtctatac attctctgta tcttttgggg gtaacttctt ggcagttttt   2340
cagtgttcag ccatgtcagt tgaaactaga tttttctgta gatttttac ttacccatgt   2400

5453

```
gagcctaaca ctatcctgta attcattttc tcaggctatg tgtaaatgta gaaccctaat   2460
ttttctataa aaaaacaaac taactaactg tgtaaagaaa gaaaaaggga agtaccaatg   2520
ggttttttcca cctttatttt acctttgatc tacccttgca gatttaacct gtcttcttcc   2580
ctcccattat tctcattttc cttttacctt tctccaccat ccagagccac aaaagcaaac   2640
cttctacctc ctacctactt ttctctggga caaggataaa ggaatatgat tttccagagc   2700
cccagagcca gctcatcttc caggtgctga aaccactttc caaataaact aaagcctgga   2760
tttgatatta caaattttgg gaaatcttag aataaagaac gagaacaagg aagtcattgg   2820
ctagtataat taagaaaggt aggattcagt gcttaccgat gatgcagtac ttgatagaag   2880
aaaacagtct gggaggatag cgctcatttt tcagttaccc tttaaggagt ccctttgtct   2940
ttgggaaagt agcagaatgg tccgcttctt tcccatgagt ggaaaatgtg gcttgtccaa   3000
ctctcctcca ggttgcattt cagtttcttt ccaaaactta ttacctcccc taatcctgag   3060
actttggaaa aggtggaagg aagaactgtt gctttatcta tctcccccctc cctgcatgtg   3120
tcaacattgt gatgtcagta tttactaatc tacattcagt ggctgtacaa ataacagctg   3180
tagtaagaag agattcagga tgctagaggt gaatatttgg gtcatttaca tgtacactac   3240
atagcaagtt gatactcatg ttgcatgttc ttttaaatta gtgattttgt gtcttaagtc   3300
tttaacttcc aatacttcat catgtatgta accttccatg tttgcttctg ataaatggaa   3360
atgtaggttc actgccactt catgagatat ctctgctcac gcttccaagt tgttctcaat   3420
gacattagcc aaagttgggt ttgccattca tcccctaggc atggtaaatc ttgtgttgtt   3480
ccctgctgtc ctccgtatta cgtgaccggc aaataaatct catagcagtt aatataaaac   3540
atctttggag gatgggagag aacaggaggg aagatgggaa acaaaataga gaattcttaa   3600
gattttgttt aaaccaaatg tttcatgtag aatgcaaaat gttggcacgt caaaaatatg   3660
aatgtgtaga caactgtagt tgtgctcagt ttgtagtgat gggaagtgta ttttactctg   3720
atcaaataaa taatgctgga atactcaaaa aaaaaa                             3756
```

```
<210> 6788
<211> 2128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (219)...(2000)
<223> similar to gi396813 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 6788
tcaacacgtg aattcccaca gaagctgctc agggactatc catggcctcc ccgtggccaa     60
cttgagtctg ctctgcagct ttaggcccga cttggaaggc ccatgggctg cagatgagga    120
aactgaggtc cagacagccg aagagtggta gtgtccagga cacacaactg ggccggcggc    180
ggcggctgcc ccgagggacg cggccctagg cggtggcgat ggggaccgcc cggatcgcac    240
ccggcctggc gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg    300
cagatgacgt catgactaaa gaggaacaga tctttctgct gcaccgtgct caggcccagt    360
gcgaaaaacg gctcaaggag gtcctgcaga ggccagccag cataatggaa tcagacaagg    420
gatggacatc tgcgtccaca tcaggaagc ccaggaaaga taaggcatct gggaagctct    480
accctgagtc tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgcccct    540
gtctgccgga atgggaccac atcctgtgct ggccgctggg ggcaccaggt gaggtggtgg    600
ctgtgccctg tccggactac atttatgact tcaatcacaa aggccatgcc taccgacgct    660
gtgaccgcaa tggcagctgg gagctggtgc ctgggcacaa caggacgtgg gccaactaca    720
gcgagtgtgt caaatttctc accaatgaga ctcgtgaacg ggaggtgttt gaccgcctgg    780
gcatgattta caccgtgggc tactccgtgt ccctggcgtc cctcaccgta gctgtgctca    840
```

5454

```
tcctggccta ctttaggcgg ctgcactgca cgcgcaacta catccacatg cacctgttcc    900
tgtccttcat gctgcgcgcc gtgagcatct tcgtcaagga cgctgtgctc tactctggcg    960
ccacgcttga tgaggctgag cgcctcaccg aggaggagct gcgcgccatc gcccaggcgc   1020
ccccgccgcc tgccaccgcc gctgccggct acgcgggctg cagggtggct gtgaccttct   1080
tcctttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca   1140
gcctcatctt catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg   1200
gctggggtct gcccgctgtc ttcgtggctg tgtgggtcag tgtcagagct accctggcca   1260
acaccgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgcccatcc   1320
tggcctccat tgtgctcaac ttcatcctct tcatcaatat cgtccgggtg ctcgccacca   1380
agctgcggga gaccaacgcc ggccggtgtg acacacggca gcagtaccgg aagctgctca   1440
aatccacgct ggtgctcatg cccctctttg gcgtccacta cattgtcttc atggccacac   1500
catacaccga ggtctcaggg acgctctggc aagtccagat gcactatgag atgctcttca   1560
actccttcca gggattttttt gtcgcaatca tatactgttt ctgcaatggc gaggtacaag   1620
ctgagatcaa gaaatcttgg agccgctgga cactggcact ggacttcaag cgaaaggcac   1680
gcagcgggag cagcagctat agctacggcc ccatggtgtc ccacacaagt gtgaccaatg   1740
tcggcccccg tgtgggactc ggcctgcccc tcagcccccg cctactgccc actgccacca   1800
ccaacggcca ccctcagctg cctgggccat gccaagccag ggaccccagc cctggagacc   1860
ctcgagacca caccacctgc catggctgct cccaaggacg atgggttcct caacggctcc   1920
tgctcaggcc tggacgagga ggcctctggg cctgagcggc cacctgccct gctacaggaa   1980
gagtgggaga cagtcatgtg accaggcgct gggggctgga cctgctgaca tagtggatgg   2040
acagatggac caaaagatgg gtggttgaat gatttcccac tcagggctgg ggccaagagg   2100
aaaaacaggg aaaaaaagaa aaaaaaa                                        2128
```

<210> 6789
<211> 2475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2476)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (71)...(1416)
<223> similar to gi537292 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6789
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gcaccactgg atattgggag tgtgtggcat gcatcctcat catcaggaaa ctctaaaaaa    120
gaaccgagtg gtgctagcca aacagctgtt gttgagcgaa ttgttagaac atcttctgga    180
gaaggacatc atcaccttgg aaatgaggga gctcatccag gccaaagtgg gcagtttcag    240
ccagaatgtg gaactcctca acttgctgcc taagaggggt ccccaagctt ttgatgcctt    300
ctgtgaagca ctgagggaga ccaagcaagg ccacctggag gatatgttgc tcaccaccct    360
ttctgggctt cagcatgtac tcccaccgtt gagctgtgac tacgacttga gtctcccttt    420
tccggtgtgt gagtcctgtc ccctttacaa gaagctccgc ctgtcgacag atactgtgga    480
acactcccta gacaataaag atggtcctgt ctgccttcag gtgaagcctt gcactcctga    540
attttatcaa acacacttcc agctggcata taggttgcag tctcggcctc gtggcctagc    600
```

```
actggtgttg agcaatgtgc acttcactgg agagaaagaa ctggaatttc gctctggagg      660
ggatgtggac cacagtactc tagtcaccct cttcaagctt ttgggctatg acgtccatgt      720
tctatgtgac cagactgcac aggaaatgca agagaaactg cagaattttg cacagttacc      780
tgcacaccga gtcacggact cctgcatcgt ggcactcctc tcgcatggtg tggagggcgc      840
catctatggt gtggatggga aactgctcca gctccaagag gtttttcagc tctttgacaa      900
cgccaactgc ccaagcctac agaacaaacc aaaaatgttc ttcatccagg cctgccgtgg      960
aggtgctatt ggatcccttg gcacctcct tctgttcact gctgccaccg cctctcttgc      1020
tctatgagac tgatcgtggg gttgaccaac aagatggaaa gaaccacgca ggatcccctg      1080
ggtgcgagga gagtgatgcc ggtaaagaaa agttgccgaa gatgagactg cccacgcgct      1140
cagacatgat atgcggctat gcctgcctca aagggactgc cgccatgcgg aacaccaaac      1200
gaggttcctg gtacatcgag gctcttgctc aagtgttttc tgagcgggct tgtgatatgc      1260
acgtggccga catgctggtt aaggtgaacg cacttatcaa ggatcgggaa ggttatgctc      1320
ctggcacaga attccaccgg tgcaaggaga tgtctgaata ctgcagcact ctgtgccgcc      1380
acctctacct gttcccagga caccctccca catgatgtca cctccccatc atccacgcca      1440
agtggaagcc actggaccac aggaggtgtg atagagcctt tgatcttcag gatgcacggt      1500
ttctgttctg ccccctcagg gatgtgggaa tctcccagac ttgtttcctg tgcccatcat      1560
ctctgccttg gagtgtggga ctccaggcca gctcctttc tgtgaagccc tttgcctgta      1620
gagccagcct tggttggacc tattgccagg aatgtttcag ctgcagttga agagcctgac      1680
aagtgaagtt gtaaacacag tgtggttatg gggagagggc atataaattc cccatatttg      1740
tgttcagttc cagcttttgt agatggcact ttagtgattg cttttattac attagttaag      1800
atgtcttgag agaccatctc ctatctttta tttcattcat atcctccgcc cttttgtcc      1860
tagagtgaga gtttggaagg tgtccaaatt taatgtagac attatctttt ggctctgaag      1920
aagcaaacat gactagagac gcaccttgct gcagtgtcca gaagcggcct gtgcgttccc      1980
ttcagtactg cagcgccacc cagtggaagg acactcttgg ctcgtttggg ctcaaggcac      2040
cgcagcctgt cagccaacat tgccttgcat ttgtacctta ttgatctttg cccatggaag      2100
tctcaaagat ctttcgttgg ttgtttctct gagctttgtt actgaaatga gcctcgtggg      2160
gagcatcaga gaaggccagg aagaatggtg tgtttcccta gactctgtaa ccacctctct      2220
gtctttttcc ttcctgagaa acgtccatct ctctcccctta ctattcccac tttcattcaa      2280
tcaacctgca cttcatatct agatttctag aaaagcttcc tagcttatct ccctgcttca      2340
tatctctccc ttctttacct tcatttcatc ctgttggctg ctgccaccaa atctgtctag      2400
aatcctgctt tacaggatca tgtaaatgct caaagatgta atgtagntct ttgttcctgc      2460
tttctctttc agtat                                                       2475
```

<400> 6790
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gggaatgcag gttgaccaca tctggctcct gccaggcaac gagcagcatc tggcagagta      60
aggggccaac gcccatgggg gatggaccct ctcagttctt gggaattctg ccccaaaagt      120
cctttccctg gggtctcaga gggcccccgt ccttcccttc ttggtgtcac tgtggcccct      180
cactgctctt ttcctattca aacctgagtc ccaccaggcc cagggcttca cctgctgagc      240
tgttgtgtcc ttgcctgtga cgaggcctgg ccaggggtgc aggagcagaa ggtggggagg      300
```

```
gttatagacg ctgcaaaggc caagagaaca tctgagagtg gcagctggtg acctggccag    360
aggggctggt gaggggcaga gaacctggct agaggctggg tccctcaggt ggtcctctca    420
ggtgggaggc gagcagcagg tgtgggtgag gggaaggttc tgatgacagc tgcagaggca    480
gggcccagtg ctggcaggtg gggggccaag accctcccct ggtgggacgt tgaagccaag    540
gatggccttg gaccctgtca ggcccagcat ggtcccgcca cctcccccac cccacaggtg    600
gtgttgggac acctgggcga gatgtgaggg tgggctcact tgagccactg aaaccagcca    660
ggtcttccct caggccggac agatggcgcc tgaccaaagt tcctggcacc tggaaaaccc    720
acaggtcaaa gtaaggggag aaaggaccct gccctccctg ttccacgtct gtggggggag    780
aggacaaatg ccaggcacag ggtaggcggt gagaacaagg cactcaatgt gtagctgggg    840
cagagactcg gcctctgggg agctgagcgg gttccctcca cccccaaccg tggtggaaag    900
acaagctcgc tgggcggggg tgggggtctg gtctccacct gcccctccca ctcagccact    960
gaggacaagg tggggcccag gcttctggga gggggagctg gcacaaaagg aagtcctggg   1020
gttgatgtgt ttgagcgtta ggcgaagtgg ttccccccat cccccaaacg gaaaaatgtc   1080
agtatttgct aagctgtaga gacctgatgc cgtgatgtgg cctgttccgc ctccacccat   1140
tacacgggga taacgctggg gggtggcggg cccacaaaag aggtgctgga ggagactctc   1200
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acgtcacggc ttttattggg agttgggggt ttggggtgcc ctgtcaggtg atcagaacat   1320
taaaaatgga ctcaacgtaa aataatcttc tggacccttc taggacgaca tggccgtgac   1380
cggtagtgct agaaaccagt cttcgagccc ccagtgccac accatgtccc cccacctgca   1440
tacctgtggt ctccccctgc caggcaccct gtgctgggca cagggacatc cctgccaggc   1500
ctagagggcc ttgtgttttt aaggcagtca aatcttgcag cctggttcag tgccagctcc   1560
aagggctatt gggtagctgc aagggtcaat tatgcattcc tgtgagtcag gtttttccaa   1620
cccaggccct tgactctgcc ctgagcttgc agctggatac aaagtgcaaa aaagcttggc   1680
tccttctgta ttctttaaaa acaaaccaac aacaaaaaaa aactgtaaaa acagcctcca   1740
tgtccacgcc cttcctggcc catcaggtcc tggtggcatc tcagggtcct gccccccccca   1800
cccccacccc caccccggct cctgcaggcc gaccttattg ctgtgctctg ggcttggggg   1860
cggctgaggt gcccctctgt cctccagcag ggcacgagtg acctgagagg cccactcagg   1920
cagaagagac gcaagctggg ccgtccaact ggtttcaact gccagcttta ccaatgcagc   1980
atttatttta aaattaaatt aaattaaaaa aaaaaagat tgcatcacca ggtagttttc   2040
tcgattaagg aggcagcctg accagggtgg gccgtggccg ggcggcagca gcatcacact   2100
gggccattta aggcagctcc ttctggcggg gcatctgtct tcccgtcctt tgtcaattgt   2160
ccccagggtg ggccaccatg gctgggggct gctgtgactg ccatgatggg cccctagggg   2220
aaccgccacg gccaagtgca gaaagagact gctggggttg ggtattgccg gggcaggcct   2280
tgcttcagtg cctgtgggtg atggccacag taagcctcgg gggggcacag ccaacggctt   2340
gggggcagca gtcactttcc ttttggcccc ggggcaaggc agggcttaaa agccggctgt   2400
cagcacaccc gaccctgccg acagcctcct ctgtcctggc cactgtgggc agcggggggg   2460
cctcccggcc gggacccctg ctcaccgcat ccatggcact cgctgccttc tggtcgccat   2520
cctcgctgtg ggagccccgg aggggagcta ctgtcagagg ccagcagggg ggcccttcct   2580
ggtgacccac acgttccagg cacatggaga aaccgggctg aaggctttct caaggccttg   2640
ggtccggctg ccctcagcat ggctgcattc tgtgtccacc ggagagctgc acctgggccc   2700
tgactcggag cagcagaaag gttggaagtc agtgaacttg gcccagcctt tctcctctgg   2760
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gggcgttgag ttcgctggct catcaaacac tgccgtccac atggcgcctg cttctgagtc   2880
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atctctgtgt gcttccaagc tcgccttccc atcctggcct ccacgctctg gccattctt   3000
tgagcaactc tctgaagcat ggggggctcc aaacctgggt ctggccatca cccgggcagc   3060
acagcgagtg tcactgtcct cccagatgtc ctcgtcctca tcatcatcaa agggctggat   3120
gcggtcactg cagcaggcct caaacagagc tgcgctggga ctgtcctcgt cagcgtcgat   3180
gttgaagttg atctctgcga tcctgtcaaa cggggcattg atgttgtcgt cctggtcggc   3240
aaactcctca tcattgaagc caaactgatc cacgaagttg ctgtcatct gctggataca   3300
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ccacgaagct ctcccagcgg ccacggcagt ccgcaaggga ccctcggat gacctcgctg   3420
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aggtggccca tgttcccacg tctcatgcca cccgctgcct gcgtgtggtc gttggcttcc   3540
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ttgtcaggga ggctggcggc cggctgggga gtctccaggc tccggttccc gttctcatgc   3660
ggaggctcca ccctgctctg ggatccgctg gcttctgtcc tctcctcacg ggcagcgtgg   3720
```

5457

```
gagagaatag cggctatgca tagttccact tggaagtgca aaaagttatt ccaggtgtac    3780
ttaaagaaca agtccagcag taagtccatc gtgttgagcc ggcagagctc ctggttgatg    3840
ctgggtgtgt ttgtgtgcag cagtgctgcc atgaggcggg cgccatgcag acgggcattc    3900
cccaggggct cctccagcac accaatggtg gtcaggatcg ctttcttctt gggcgggttg    3960
agcaggagct ggtggaagtc cttcagccga ggctcgatgc cgtgtagtac gctgctgctg    4020
acagcgtatg acctttccag tccctgagaa aaggagtcca ccaagccctc tgtcccaacc    4080
cgcctggttt ccagcaaggt gagtaacacc tgagtcccac tgacgaggca gctctccgtc    4140
cggtctccat caaacatgtt cttcagaagc tgctccacac agtcctgcga ctccagcgct    4200
gtgaggagcg ggtctggctc cagagcctct tgcagctgac tgccctggtc tctgcccagc    4260
ctaactatgt cacagagagt ctgagaagca tttgactgcc tatcttcatc ctggctcggg    4320
tggatcaact ccacaagcct ctggatgacc ttctcttcat tcagccagtg caggacgtcc    4380
tgccggagcc cggctggctc cacacagctg accaggcgca gcagcaggtc cataagcgct    4440
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atcacctgtt cggttttttct tgcaatgaga ttgccaatgg tcttgctgaa aaaactggcg    4560
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tgagccttac actcctgcaa gatgtcatct tcatccatta actcctgcag cgtcacatgc    4860
tccttgtcca gcagcttgtc aacatgggac gtggtgttca agtcaaactt ccagaacatc    4920
gtgacggccg cagagcttct gtggaaatct cttgtttaaa tcatgtattc aggcaaaaca    4980
gaaaaacatt tgtggttttt ttcttggagt atatgcagct ttaagaaaat ttttttcatt    5040
cagtggaaga tttataatct ctttacctgc cctgcgggcc gggcgtcgcg gcagctcttc    5100
ggaggcccgt gtggaggccc gagcggaggc cagggcgctg gtggaggcaa agcccgggcg    5160
gcctcgggcg ggccgcacac acatgggccc ggccgagggc gcagcgccta cggacaccgg    5220
cacggccggc cggcggctaa agaccgactc ggggccgcgg gcggcactcc gatcgc        5276
```

<210> 6791
<211> 3812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3590)...(878)
<223> similar to gi178052 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6791
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ctcccccgg tgtttaaccg ccgcccccgg attttatttt tggggcccca taaaaaaaat      60
aatacctttc cagcccccgg tcgtaaaatt tgtttctta aaaagggccc cccctttttt     120
ttttttttgt cataggagtg tggttttttt aataccatct gtgccaagca atatcaaagt     180
tgtccatact ctccaagttt gtcctatttt taatagacaa tattaaaaat tttttaagtg     240
tgtgctgata aagagactag tcacacctct gaggggattt aaaaatgaga agccacataa     300
attctcttcc ttaaaaaaca gccatttcaa aagattttct ttaatatcat aaaatatttt     360
catggacaag tgagctagca aacacacatg caccaatgtg ccttttgaca agagtacccc     420
ctaccccgac tcccacacca aaatggacat gagattggag aaatgaatac agcagatgga     480
acagatagaa gaaaaaaaaa tcagtaaaaa ggatggaata taactttgtg cttggttatt     540
ttcctatgtc gcaacaaaac aagacatttc ggtgcaaata gttaatcttt cctctttttt     600
tccatttgtc tggtggagaa aaaatacttt ttctataata aaatatcgta gttttttggt     660
```

5458

```
ttttaaccgt aacttttttt ttcttttttg gcagaaaata attttgtaaa ctggtcactt      720
cgcgggcagg gagggatcga tgccacgctg ggccccagct cacccggggt ggaggctggg      780
atgctgaaac cgaacccagg caggagatgg gccgacggcg gaggtgcaag gcagggcacg      840
gcgcacaaga cgaggggcgg ccgggcgggg tggattagag gtcactctcg ccgtacagcg      900
ccgtggagaa ggacatgtag tccagagcac ctggcacgga gtcggggccg gtgtaggggg      960
ccatccgcgc gatgcagtac tcagcctggt cgggtggcag ctcgcggcgc agctcgtcca     1020
tggtaatgta gttcttgtcc ccagccagga tcttgaagga agccatgact tggtctgctg     1080
tatctgtgtc ggctgtctcg cgggacatga agtcaatgaa ggcctggaat gtcactaccc     1140
ccaggcggtt ggggtccaca atgctcatga tgcggcaaa ttctgcttct ccctgggggt     1200
cgttgccaat atcataaccc aagctgatga ggcaggcttt gaactcctcg ggacccagtg     1260
tgccggagtg atcccggtca aagtggttga aggaggcccg gaactcattc atctgctcct     1320
ggctgatgcc cttggcatcc cgggtcagga tctggttctc tacctcattg atggtcctgg     1380
cgatggtggt gagcagctgc tcccagccca cacggatgtg ctccatggtg tagttggtgt     1440
gcttgttgtc gaagatgagc gcctcctgga tgagctggtg gtcgccctcc agctgatcaa     1500
tctttggctt gtagttgacg atgctcttct catactgccg caggtggctg agctggtcct     1560
ccagggtccc atgcatctca atggagatcc ctcccgatct cctccatctt tggtctggat     1620
ccagggcccg aatgacattg gcctgggctc caaactgctt gcggtagcct ctcattgtgc     1680
tgctgtcggg catgctcctc cgtcagagct tggtccctcc gaggcaccag ctgccgcacg     1740
tggtcccatt tgccattgat ctcctgaggc gtgatggttg tgtaggggtt ggtgcccgcc     1800
atattgacgt ggtaggtctg dacaatcttg gacacctcat tgtggatgcc caggatggcc     1860
aggcgctcct tgtcggcatc agggagggtg gccttgaact gctcatgggc tgtggtcagt     1920
ccctggattc tcctcaatgg tgtgcacaat gaaggtgtcc tgcaggtcct ccatggcccc     1980
ctccatccag ttgttgaagg gtgcagcccg cttggcatac tccaagtaca gctggtcaat     2040
ggtctccagc agtttctcgg tcccgctcca gagcttccct tcgcttctga gttagggccc     2100
ccagattgtc ccaactggta acagatcttt tggcaaacgg gcgttgaaca ctgggtgagt     2160
cataatagtc caagttcatt tgagctcctt gtgcgatggc ggcaatctgc ttccacacgg     2220
gtcctggtgg gcagcccagg tcactctcga aggccctcat gcttccttga gcagggcctt     2280
gatctcccga gagggtggcg gtctcatagt ccttctgtcg cagcatggcc tctttgccgt     2340
cagtccaggc ctcgtggatg gaggcccttc tgccggaaaa cttctctgcc caaggtggtc     2400
caaatcgctc caagcttccg tatctcattc aagcaaacca ctccctcaat agcccttctc     2460
cacatgctcc caggcaagcc cccaggcatt gttgatgtcc gagaccatcc tgccctcaga     2520
gggcatgaag gcaggccggt tgctgagccg cagcttggtc tgcagcgtgt tgaagttgat     2580
ctccagctgg cacttctcct gcaccttggg cggcttgtgc aggcgccggt agtcccggaa     2640
gtcctccagc ttctgttgca tggcatgcat ggtgttctcg ggcacccggt tctccagcca     2700
cgggattgtg cggcggatcc actccaacag atcactggcc agcttctcgt agtcttccat     2760
aagctgctcg ttctcctggt tgacggccaa caccttgcag atgcgattgg ctgctgtctc     2820
cgccttctgg gctccagaga aggcgtggta gaagctagac acgtaagtca tgatggcttt     2880
ctcatccggt cgggcagttc caacgatgtc ttcggcatcc agcatcttgg ggatgtccag     2940
gtacttctct gccacgtcaa aagccatatt cagatttgtg agtggatcat ccttccgcag     3000
cttccgtag tcaatcagct cgggccggtg tcggtggatc aaagcacaga agccgaggcc     3060
atccttccag cttatgtgga agttctggat gttgacattt ttgtaagggg ctgtctttct     3120
ctgacaccac aggagcagcc cttccttggc tgaagtctct tccacggaga tgtcctggat     3180
ggcaaagcgc aggatgatgg tccagatcat gcccagggtc atcttcacat tcccatccac     3240
gatttcttcg gctccgatgg acaccagttt gacgcctttg ctggctatga aatccagggc     3300
cttgttgacg ttggagatct tgtgcactct catcttgcct cgctctggct tggccaagcg     3360
ttcacctgag atgacctcca gcagcagcat gagcttcagg ccatcccgga agtcctcttc     3420
gatgttctcg atctgtgtcc ccgccttccg gaggtgggag ttacaccatg ccgtgaatgt     3480
ctttctctgc tgcttctccc aggccgggtc caggagcagg tcccggtccc agtcctcttc     3540
tggctgcatg taatcgttgg tttgctgaga atcataatgg tccatgatgg tgcgcgcgtg     3600
ctagggtctg gatttcttcc tccaccttct ctctgagcaa cggctgctgc cctggcgtgg     3660
ggagggagta gggctgggct gggctgggct ggcggggccg ggctcgctcc cctgcgcccg     3720
gttccgccgc ggcgctgctg gcgaaggctg ctactggcgg cgacagcggc ggctgggctc     3780
gcggactgcc tgcctctggg cgggctcgtg cc                                   3812
```

5459

```
<210> 6792
<211> 1357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1318)...(131)
<223> similar to gi1002507 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


       <400> 6792
ttttttttcca cattggaggc acaagtttat tgagcacccg gatatggaag atggcaccgg     60
gcacagagcc gtgggactgg cctgcaggcc ccgcacccct caccgtgtgc ttgtccttgg    120
gggtgcctca caaagaacag caccttggct tccatcggct gcttgagaga ggtagaaggt    180
ggcagtcccg ctgtagtgct ccctggatgt gccgcatggc gttgggggag caagcggagg    240
cctccagcag tgtcaccgtg cagccaccga agccaccgcc cgtcatgcgg ctgccataaa    300
ccccaggcac agcaagcgca gcctccacca gctggtccag ctctgggcag ctcacctcat    360
agtcgtctct gagtgagcgg tggctctcac accatgaggc ggccaaaggc tctgtagtcg    420
ccacgtctca gggcggccgc tgcctgggcc gtgcgccgaa tctcccccac cacgtgccgg    480
gcccgccgga agccctcttt gctcaccagg tccctggcag cctctagctc ttccagttgt    540
acctcccgga ggctttcctt gcccagcgcc cgggccactt cttcacattg gcgccgccgc    600
acagggtact cgctggaggc cagggagtgg cggacattag agttggtgat gagcacggcc    660
agcttggggt ccgagagtgg caccaggctg gtctccaagg acctgcagtc aatgagcagc    720
gcgtggcctt tctgtcccat aagtgagatg aactggtcca tgatgccaca gggcatccct    780
gcgaagctgt gctcggcctg ctgacacacc tgggcgcggg cagctattgt gcccgagtct    840
ggacagagct gctggaggaa ggtgtacgtg gccacttcca aggatgctga gctggacagg    900
ccacccccca ggggcactga gctgaccacc actgcactga agccagggag gggggcagct    960
gggtagtact gaatcactcc cttgacatag ttggcccacc gaggagtccc aggctccagc   1020
gagcgctggg ctgtgggcag tggaaactgc agccgctggg gctcatcggc accctcagag   1080
gtggtgagga gagacaccag cccatccttg cggggggctgc ccaccagcac cgtcatgagc   1140
tccagagcca taggcagcac caggccctgg ttgtagtccg tgtgttcccc gatgaggttg   1200
acgcggcccg cgcgctgacac ggccagctcg ggctcggccc cgaactcctc ccggaaggct   1260
cgccgggcct cggccagcag ctccgcgacc tggggctgtc tcaaagcagc catgacgcgc   1320
gcctgcagct ctgcacagct gctccgcaca gccccgt                              1357


<210> 6793
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)...(780)
<223> similar to gi1749490 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

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        <400> 6793
gggtcgaccc acgcgtccga gtaggcagag agcggacctg gcggccgggc agcatggcgg        60
ggctggagct cttgtcggac cagggctacc gggtggacgg gcggcgcgcc ggggagctgc       120
gcaagatcca ggcgcggatg ggcgtgttcg cgcaggctga cggctcggcc tacattgagc       180
agggcaacac caaggcactg gctgtggtct acggcccgca cgagatccgg ggctcccggg       240
ctcgagccct gccggacagg gccctagtga actgtcaata tagttcagcg accttcagca       300
caggtgagcg caagcgacgg ccacatgggg accgtaagtc ctgtgagatg ggcctgcagc       360
tccgccagac tttcgaagca gccatcctca cacagctgca cccacgctcc cagattgata       420
tctatgtgca ggtgctacag gcagatggtg ggacctatgc agcttgtgtg aatgcagcca       480
cgctggcagt gctggatgcc gggatcccca tgagagactt tgtgtgtgcg tgctcagctg       540
gctgtcgtgg acggcacagc cctggcggac ctcagccatg tggaggaagc agctggtggc       600
ccccagctgg gccctggccc tgctgccaag ccttcaggac agattgcgct gcttgagatg       660
gatggcccgg ctgcacgagg accacctgga gcgggtgttg gaggctgctg cccaaggctg       720
cccgagatgt gcacaccctc ttagatcgag tggtccggca gcatgtgcgt gaggcctcta       780
tcttgctggg ggactgacca cccagccacc catgtccaga ataaaaccct cctctgcccg       840
caaataaaaa aaaaa                                                        855




        <210> 6794
        <211> 1125
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (14)...(870)
        <223> similar to gi4929625 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters




        <400> 6794
gcacgaggtc gtcatggagg cggtattgac cgaagagctt gatgaggaag agcagctgct        60
gagaaggcat cgcaaagaga agaaggagtt gcaagccaaa attcagggca tgaagaatgc       120
tgttcccaag aatgacaaga agaggaggaa gcaactcacc gaagatgtgg ccaagttgga       180
aaaagaaatg gaacagaaac atagagagga actgggagca attgaagctg actactaagg       240
agaataagat agattctgtt gctgttaaca tttcaaactt ggtgcttgag aatcagccac       300
ctcggatatc aaaagcacaa aagagacggg aaaagaaagc tgcattggaa aaggagcgag       360
aagaacggat agctgaagct gaaattgaaa acttaacagg agccagacat atggaaagtg       420
agaaacttgc tcaaatattg gcagctagac agttagaaat taaacagatt ccatctgatg       480
gccactgtat gtataaagcc attgaagatc aactgaaaga aaaggattgt gctctgactg       540
tggttgcctt gagaagtcag accgctgagt atatgcaaag ccatgtggaa gactttctgc       600
cattttaac aaaccctaat acaggagata tgtatactcc agaagaattt cagaagtact       660
gtgaagatat tgtaaacaca gctgcatggg gaggtcagct tgagctaaga gctctgtctc       720
acattttaca aacaccaata gagataatac aggcagattc tcctcccatt atagttggtg       780
aagaatattc aaaaaaacca ctaatacttg tatatatgag acatgcatat ggcttaggag       840
aacattataa ttcggttaca cgactgagtt ggtgcgctag taattcccag gatcatgact       900
gagagattgt taataaaagc attgagtggg ggtaaaaata cgaagatcat tactttgaat       960
gggaagaaga tgacaaagat gccctcagca ttaggaaaac tgcctggcct gaagactcta      1020
gtccttcaga ataacctaat ccccaaagtg tgtccagagt tatgcaactt gacccaggac      1080
tggaagataa gcaagaatct gaagctggtg cctctccaag tatta                     1125
```

<210> 6795
<211> 2250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2112)...(125)
<223> similar to gi3941326 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6795
```
tttttttttt ttgacgggaa ttaaataact tttgactttta tttcactaga gataaaacca     60
gcagcatcac agcttgagcc ccttacccac ccccttgtcc tccccacccc ccactcttct    120
gcctaatgtc ggtaatgggg gcttcgggat cgggaccttg agcgccttcg agaagagctg    180
tattctcgac tgtatcgggg ggagggtgag cggctctgcc ggctgtactg gcgttcccac    240
tcttctctct ccttctctcg gcgttcccgc tccttcatgc ggatcttgcg ggccatggct    300
cgaagctcgt cttcccgctc ctgccgctca tgctcctgct ggatcatctt ttcttgtgcc    360
gccttcttat ccgccttgaa ctgcctgttc agcgccttct gcatcctcag tttctccttc    420
tcctgaggcg tcagcttggg tgactttggc agctcctgtc tctttaccag ccggcaggtt    480
cggtcttttt cagcttctcg cccacagcag gggacgcggc cggcctggtc agcttctctc    540
ttgcgggtga tggcgagggg ctctggctgc ggctgcggct gcggctgcgg ctctggctgg    600
ggctggggct atggctgcgg ctgcgagtca ggctgcgact gcgggacggg ctgagggacc    660
agctgctgcg gctgcggcta ctgctgtggt gcctgaggcc ccggccgccc cgcctgtagc    720
ggtcccctga gtgggagcgg ctcctgcttc tgcgccgggg cccgtaacca ccacgccggg    780
cgggcgagcg ggagtaccgg tgtccgtctc gggagccccc acctgagtgc cgccggccac    840
ggctacggga ccgggaatag cgccgggagc gggagcggga gcgggaccag gagcgggacc    900
gggagcgggc gtggcggccg gaacggtagt agcccccacc acggcgagag cgggagctgg    960
agcgagagct ggagcgggag ctggaggtcc tcgaggcaga agaggaggag gaggaggagg   1020
aggagcggcg gcgggcgctg gcattacgtc ccggggcggg gccgccaggc tggggaggtg   1080
cggggggctt ccctgtggtg actcctgatg ctgctgcggc agcagcggct gcggctgcct   1140
cctcatcgct gcccccaaaa ctggtgatga acgtgatctt ctcctcgcgg cccggggtcg   1200
gggagcggga gcgggagcgg gactctgagc tggactccga gggtgaccgc ttatagtggt   1260
cataggtggg gctgtctcgg cgggcatagc tgggtgggct gatcttgcga cccctcagcc   1320
gcttctcccg aaactctctc cgctggcgtc gagagcggcg tcccgagtac atggccttct   1380
cctcctcaag agccttggca tgcttgatgg cctctgcctc ctccttgtct ttccggagca   1440
tcctgacgaa gtcaccgtcg gccatgccat aagtcgtggc ctgtttgttg agatctgcca   1500
cctgctcctg gttcaattca tccacgtcca cctccacgtc gatgtcgggg atgacctcat   1560
cttcgtccga gttgctctcc tcctcggccg ctgactcctc ctcctctggc ttttctgccg   1620
ccttctctac ctcggccacc gtgctgtcct cgtaggtata accgatggaa gccttcttct   1680
ctgccagctt cttcttctca tcttcgctgg gtctctggag gcctccgtac aactcatcaa   1740
tgtagatctg gtacaggcac tgctcctttg agatgccggc aaagtcgttc tgcaccaggc   1800
ctctgtagcg ctcgtagtta cacttccgtt cgtccgactc ctgttctggg gagatggtgg   1860
tgagcagagg ggggtgtag tcggggatgt ggtccaggtg ggcacggaca tcgaatcggt   1920
caatcatgtt gttggtgtcc ccctgccagg gcatcatatt aacagggctc tcagcggcca   1980
gggcgactgc agaatccagg tgcaccttgc aagctcggcc atgtacctgc aggaactggg   2040
ctgggtcctt cttgatcttt tcataatact cccgtcttcg ctccgccctc ttcttgtagt   2100
cgaccatcat gcctcgaagc ttccgctcat gcttccgagc ctcgtgccac attgtggtga   2160
ggccaagcct ggggcctcaa ccggctggtc gccgcctccc accgctgcgc tcgcgcgcgg   2220
cccgcaccgg aagcggaaat gaaaggccgc                                    2250
```

<210> 6796
<211> 3097
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3021)...(353)
<223> similar to gi987948 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6796
tttttaaact caaaaactaa aagggtttac tatttcaaca tattacttcc tccagaactc   60
tcataacatg tacataaata agaatgtttc tcatttctta atttattaac aatgtataca   120
tttgaaaaaa tatatacaat atttcaaaac aagcccttca agactatatt taagcaatga   180
catccaagga agcagaactc aggtaccatg taatatttgg aaaatatggt aacttgaaga   240
ttaagatttc tcttccttgc tggttactct gaagtctcca atatacaaag gttgctccta   300
acgtggtttt cttattgagc caagcatctt gatgggtcaa tcccagtttc attttctcca   360
gtactgggca aacttgtgaa tctgttccac cactgcagca aaaagagcat ggacactctc   420
atcaatcaga ctctgcatgt aatgcacagc ctcttcatcc gacaggtcta agcggaattt   480
atcctgaacc tttttcacag ttttatctgg ttcaagtgca atatctggaa tgtttgcatc   540
aaccatcaag gaaaacaagt tcaaaatcag attagaatac cttcgcaggt ggaggaaagc   600
cgtgtaacac tgtttacgga actcttggta ctgctcactc tgtgtgcccc ccattccttc   660
taccatttct ttattcagct tcattggtgg aggaagaggc tttggatccc gacccaaaat   720
atatccaaag tctatgtgga agagtttgcc tgttttttgtt agcaaaaggt tatccaggtg   780
cctgtctcca actccaagta tataggtgat cacgcaatat ccagcacagc tttttaacgta   840
agtgtccatg acctcagcac taatcccatt tggcccattc tcacttggtg catattttct   900
aaaaaagttc tgaatgcttc cctctgtatc aagaacttca gccacaggaa ctgactggat   960
aaactgcatg aagccatgtt ttgtactggt ggctaacacc ttataaggtg tcaatttcaa   1020
gtccagattt tctttccgta acagcttgtc catgagtgaa atgatttgaa gaataagttg   1080
atcttgacgt aaatcatctc catgcttaaa tataactgga tatttgcctc catcttccgt   1140
cttaaaaaac aactgtgcag gcataagggc acttttaaac agtgtagctg tttccggaat   1200
tattcctcta attttcactt ggggttctaa aggcaacggg ataagttcca catctgacaa   1260
attcatcttt tcattatctc caagcaatgc ctgtagtctc tcattctttt tcttacgatt   1320
tccactttcg cgttgtactg ccttcattag atgcaccaac cgatctacaa atgtctgttg   1380
tgcagccagc aaagaacgca taactctgac agacttatca cccttcaaca atgcttggct   1440
gaatcttctc attacgttca agtacatctc atgggtcttt ggatctctct gctgagtatc   1500
ttgatcttca cattccacta tcacatacca gtataaataa ttagccagtg ttgagttttt   1560
ggaggctctc gatatcaaga aggtacagag atcttgttcc agattttcgc catctggaac   1620
ttcttttgtt tttgatgcca ggaggaggtg aagagactga agggaagggg gcctggttat   1680
aatttgggag ctatctattt ctgcagaatt tattccagaa tttgacacat tttctgacac   1740
tgaactctga ctatccttct tggtaggttc caatccattc tttatatcat caaaattttc   1800
atatttgaga gcctggacca attgtaatag gtacatcaac aaatcctcat catcggcctg   1860
tcgcaaccgg gcaacagcat aacgcctcac agttgggttg gtgtaatgag aggataacag   1920
ctccaaggag tcctctacat ccatcggctt ccatttttccc agaagtgcca aggcctgttt   1980
ggccccctga ggtagatccc aaataacaga tgtcaggatt ttggtcaagg ctttatcttg   2040
attcgtaaga taatatctaa actcccaaac aagatcttgt tcttcatatg tgggtggctt   2100
ggatggagga taactcacaa tatttttaa ctgatctctc gggaaggat agggtttcag   2160
atcgtggtca gaaggtccac ttcttaaact ccggggaagg ttgtggtgtt tgctctcaac   2220

5463

```
taaattctcc agggacatct gggggtcagg aactttcact aattcaaaac ttgttaaaat      2280
tggagatgat tcatcaccgt ccttttcata ataaacaata ccatattcct tatcatcaca      2340
cttgacacat cgaaatccac ccatcaggta catgaaatta gaacttcgtt tcacactctc      2400
atttatcatt tctatttctc taaatgtcaa tctatccagc caatctactt tcaccatgtg      2460
tccttgtcga tgagctttgg tgagcttggc aagacggctc atctgatctt ctgagagagt      2520
gctacttgtt ctgccaggag tttttgtggg tttctgatcc atctggcttc tacaattagg      2580
ccagactttc aagtcatgca tcccttggcg aaacatgccg tattttccaa agagcgaaac      2640
cgttgttcct cctacaggca ctgcttttcc gggaccatac acatcccata tggtgagggc      2700
cacttgggca ttcctgggca ggtcagggta ttttactggt agtttcagcc attcattcca      2760
gttccatctt gtactaaatg ctttgtagga tgttctcact ggcaaggcca aaggcttccc      2820
ttctgcaaaa acttgacaag taacataaag atcagagcat gtctcttgat atagtcctga      2880
gaacttcaac attgggtctt ccaggacagc tttataactc ttttgttctc tcttcccttc      2940
caagcttcct atcttaagct ggacgttgat atccaggtca caactataga tgtagtgaaa      3000
cttctctgct tcccccatcg caccgtctgc aaaggtacca cctacagcgg gaacttaggt      3060
acaggaaaaa caacataaat gaaccagctg agcccca                               3097
```

<210> 6797
<211> 4064
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (346)...(3698)
<223> similar to gi3688350 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6797
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agtaccgctc gacccacgcg tgcgatagcc cttgctattt gcaagctcat tcatataact        60
attgagcctc tctaccgaag agttggagtt cctaaaggtg ctaaaggctc acctgttaat       120
gctttgcaaa acaagagagc accaaaacaa gctgagagct ttgaagattt gaggagagac       180
gtgttcaata tgttctgtta ccttggtcct cacctttctc acgatcccat tttatttgca       240
aaagtggtgc gcataggcaa gtcatttatg aaggagtttc agtctgatgg aagcaaacaa       300
gaagataaag aaaaaacgga agttatcctt agctgtttgc ttagcattac tgaccaggta       360
ctacttccat ctctttcttt gatggactgc aatgcttgta tgtctgagga actatgggga       420
atgtttaaaa catttccata tcagcataga tatcgtctgt atggccagtg gaagaatgaa       480
acttataaca gtcacccact tttagtaaaa gttaaagctc aaacaataga cagagccaaa       540
tatatcatga agcgcctaac caaggaaaat gtgaagcctt ctggaagaca aattgggaag       600
ttgagccaca gcaatccaac catttgtttt gattatgtat gttttgagat cttgtcacaa       660
atacagaagt atgataactt aataacacct gtagtagatt cattgaaata cctcacttca       720
ctgaattatg atgtcttggc ctgtatcctt tcaaattgta tcattgaagc tttagctaat       780
ccagaaaagg aaagaatgaa acatgatgac acaaccatct caagctggct tcagagtctg       840
gctagtttct gtggtgcagt ttttcgtaaa tatccaattg atcttgctgg tcttcttcag       900
tatgttgcca atcagctaaa ggcgggcaaa agttttgacc tgcttatatt gaaagaagtg       960
gtacaaaaaa tggcaggaat agaaattaca gaggaaatga caatggagca actagaggct      1020
atgactggtg gagagcagct aaaagctgag ggtggttatt ttggtcagat cagaaacact      1080
aaaaaatcct ctcagagatt aaaggatgct ctattggacc atgatcttgc ccttcctctc      1140
tgtctgctta tggctcagca gagaaatggg gtaatctttc aggaaggtgg agagaaacat      1200
ttgaaacttg tgggaaagct ctatgaccag tgtcatgata ccctggtgca gtttggtggg      1260
tttttagcat ctaatctgag cacagaagat tatataaagc gagtgccttc aattgatgta      1320
```
```
                                   5464
```

```
ctctgtaatg aatttcatac accccatgat gcagcatttt tcctgtctag gccaatgtat   1380
gcccatcata tttcgtcaaa ataccgatga acttaaaaaa tcagaaaaag ggaagtaaac   1440
agcaacataa agtccataaa tacattacat catgtgagat ggtgatggct cctgtccatg   1500
aagcagtggt ctccttacat gtttccaaag tctgggatga catcagccct caattctatg   1560
ctacattctg gtcattgaca atgtatgacc ttgcagttcc acacaccagc tatgaacgag   1620
aagtcaataa acttaaagtc cagatgaaag caattgatga caatcaggaa atgcccccaa   1680
ataaaaagaa aaaagagaag gagcgctgta ctgcccttca ggacaagctt cttgaagaag   1740
aaaagaaaca gatggaacat gtacagagag ttctacagag attgaaactg gaaaaggaca   1800
actggctttt agcaaaatct accaaaaatg agaccatcac aaaatttcta cagctgtgta   1860
tatttcctcg atgtattttt tcagcaattg atgctgttta ctgtgctcgt tttgttgaat   1920
tggtacatca acagaaaact ccaaattttt ccacacttct ttgctatgat cgagtattct   1980
ctgacataat ttacacagtt gcaagctgta ctgaaaatga agccagtcga tacggaaggt   2040
ttctttgctg catgttagag actgtgacca ggtggcatag tgatagagcc acatatgaaa   2100
aaggaatgtg gaaactatcc aggattcctt accatattac gggcaactgg atttgatggt   2160
ggaaataagg ctgatcaatt agactatgaa aattttcgac atgttgtaca taaatggcat   2220
tacaaactaa ccaaggcatc ggtacattgc cttgaaacag gcgaatatac tcacatcagg   2280
aatatcttga ttgtgctaac aaaaatactt ccttggtacc caaaagtttt gaatctgggt   2340
caagcttgga aagaagagta cacaaaatct gccaagaaga aaagagaag aggccagatc   2400
tatatgcatt ggctatgggc tactctgggc agttgaaaag tagaaagtca tacatgatac   2460
ctgaaaatga gtttcatcac aaagacccc ctccgaggaa tgcagttgcc agtgtgcaaa   2520
atgggcctgg tggtgggcct tcttcatcat caataggaag tgcatctaaa tcggatgaaa   2580
gcagtactga ggagactgat aaatcaaggg agagatctca gtgtggtgtg aaagctgtta   2640
ataaagcttc tagtaccaca cctaaaggga attcaagcaa tggaaatagt ggctctaaca   2700
gcaacaaagc tgttaaagaa aatgacaaag aaaaagggaa agagaaagaa aaagagaaaa   2760
aagaaaagac tccagctact actccagagg ccagggtact tggtaaagat ggtaaagaaa   2820
aaccaaagga agagcggcca aataaagatg aaaaagcaag agagaccaag gaaagaacgc   2880
cgaagtctga caaagagaaa gaaaaattca agaaggaaga aaaagctaaa gatgagaaat   2940
ttaagaccac tgtccccaac gcagaatcaa aatcaactca agaaagggaa agagagaagg   3000
agccatccag agaaagagat atagcaaagg aaatgaaatc aaaggaaaat gttaaaggag   3060
gagaaaaaac accagtttct gggtccttga aatcacctgt tcccagatca gatattccag   3120
agcctgaaag ggaacaaaaa cgccgcaaaa ttgatactca cccttctcca tcacattcct   3180
ccacagtaaa ggacagtctc atcgaactca aggaatcttc agcaaagctc tacattaatc   3240
atactcctcc accactgtcc aagagtaagg agagagaaat ggacaagaaa gatttggaca   3300
agtcaaggga aagatccaga gaaagagaga aaaagatga aaaggacagg aaagagcgga   3360
aaagggatca ctcaaacaac gaccgtgaag tgccaccgga cttaaccaag agacgtaaag   3420
aggagaatgg aacaatgggg gtttcaaaac ataaaagtga aagtccttgt gaatctcctt   3480
atccaaatga gaaagacaag gaaaaaaata agtcaaaatc ttcaggcaaa gaaaaaggca   3540
gtgattcatt taaatctgag aagatggata aaatctcctc cggtggcaaa aaggagtcca   3600
ggcatgataa agaaaagata gaaaagaaag agaaacggga cagttcagga ggaaaggaag   3660
agaagaaaca tcataagtcc tcggacaagc acagataatg aagactttcc atcaaggtga   3720
gatcggactg gaactgttcg gctgcgacca gaaatttatt ttcctgagta aattgccgag   3780
aattaagaat gaagagggcc atttgcatct ccttaaatta ttcagttacc tgctttattg   3840
ctccatgtgg gaaaacttaa aattgttaag ttgtgcatta ctgtatttta acttgttggc   3900
ttagtttcta catgtttatt ttcagtaatg gctgaaagtg ttaactgttc catactttta   3960
gcacaatgtg ctgcataagg ttacctgtgt acagagtttt actttagatt aactaaatat   4020
tgcctgggtt cagtttttat ttccattctg aaatgcttcc tttt                   4064
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<210> 6798
<211> 2344
<212> DNA
<213> Homo sapiens

<220>

5465

<221> misc_feature
<222> (754)...(1414)
<223> similar to gi3970852 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6798
cgggtcgacc cacgcgtccg agaaaatggc actgcaaacc ctatcaagaa cggtaaaaca   60
agtccagcat ctaaagatca gcggactgga aagaaaacct cagtacaggg tcaagtgcaa   120
aaggggaatg atgaatctga aagtgatttt gaatcagatc ccccttctcc taagagcagt   180
gaagaggaag agcaagatga tgaagaagtt cttcaggggg aacaaggaga ttttaatgat   240
gatgatactg aaccagaaaa tctgggtcat aggcctctcc tcatggattc tgaagatgag   300
gaagaagagg agaaacatag ctctgattct gattatgagc aggctaaagc aaagtacagt   360
gacatgagct ctgtctacag agacagatct ggcagtggac caacccaaga tcttaataca   420
atactcctca cctcagccca attatcctct gatgttgcag tggagactcc caaacaggag   480
tttgatgtat ttggcgctgt ccccttcttt gcagtgcgtg ctcaacagcc ccagcaagaa   540
aagaatgaaa agaacctccc tcaacacagg tttcctgctg caggactgga gcaggaggaa   600
tttgatgtat tcacaaaggc gcctttttagc aagaaggtga atgtacaaga atgccatgca   660
gtggggcctg aggcacatac tatccctggt tatcccaaaa gtgtagatgt atttggctcc   720
actccatttc agcccttcct cacatcaaca agtaaaagtg aaagcaatga ggacctttt   780
gggcttgtgc cctttgatga ataacggggg agccagcagc aaaaagtcaa acagcgcagc   840
ttacagaaac tgtcctctcg ccaaaggcgc acaaagcagg atatgtccaa aagtaatggg   900
aagcggcatc atggcacgcc aactagcaca aagaagactt tgaagcctac ctatcgcact   960
ccagagaggg ctcgcaggca caaaaaagtg ggccgccgag actctcaaag tagcaatgaa 1020
tttttaacca tctcagactc caaggagaac attagtgttg cactgactga tgggaaagat 1080
agggggaatg tcttacaacc tgaggagagc ctgttggacc ccttcggtgc caagcccttc 1140
cattctccag accctgtcat ggcaccctcc accatcaggg cctgagcgga catccgtgct 1200
gatcacaata ctggtcctgc cagggcgggc caagacaaaa ttcactacat gggtcattcc 1260
atagtgcaga tgtattgaaa atggatgatt ttggtgccgt gcccttttaa cagaacttgt 1320
ggtgcaaagc atcactccac atcagtccca acagtcccaa ccagtcagaa ttagacccat 1380
ttggtgctgc tccatttcct tctaaacagt agatacttct gatggattct cggcattaac 1440
tcctgtttca aaaaagtgtg aacagtttta tgaatttgaa agaaaatttg gtagctcttt 1500
atagcattca ttcttaaaga tcagtcagaa taggtgattt ctaaataaac caaatagaag 1560
aatgaagtat ctctacaggg tagtaacttg attcctcttc aggagaaaag ggagctaaat 1620
tgcaagctct aactaagggt ttctgctact gacatcacaa cacagaaatg caagtgtggt 1680
acttccagtg aaagcacatg gcacctttct aggtgtgtag ccactgagaa gggacagtga 1740
aactgttatt tttgatatca gaatgtcatt tttatgtgca tatccctaaa attagggtta 1800
tttctacata cactagttac acttgtgaat ttttttaag gtctctttta aatttccagg 1860
acagtaaaaa accaatctag gttatcttaa agcatttaga aagttattat ctggagagtg 1920
cagagatttc agtccataca cctttctcca caaagcagag ccagaagtaa ctgacttatt 1980
gtgccttaaa actctgtttc atttttaaaa acaagtgcca ttaaaatgga atatctaatg 2040
ataagcatat gaaataatgt gtaattagct caatttaact attccacaac ttacatattc 2100
caaaacaatg ttatacatga taaatatata taattttgt cagttaaaac aaattaaaaa 2160
aatggactat cgtcgcacag aagcctagaa caaaaatatg aagagaaata tctgacattt 2220
gtaaagaaat tataagaaga aaaaaagata cagaacagaa aacattcact actttagaaa 2280
cactttatgc atggcttctt gccccaaact tttattgtga tggccctaat aaagcagatt 2340
attg   2344

<210> 6799
<211> 626
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)...(530)
<223> similar to gi2809498 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6799
gccgagcccg cgagatgctc cccagagctg cctggagctt ggtgctgagg aaaggtggag   60
gtggaagacg agggatgcac agctcagaag gcaccacccg tggtgggggg aagatgtccc   120
cctacaccaa ctgctatgcc cagcgctact accccatgcc agaagagccc ttctgcacag   180
aactcaacgc tgaggagcag gccctgaagg agaaggagaa gggaagctgg acccagctga   240
cccacgccga aaaggtggcc ttgtaccggc tccagttcaa tgagaccttt gcggagatga   300
accgtcgctc caatgagtgg aagacagtga tgggttgtgt cttcttcttc attggattcg   360
cagctctggt gatttggtgg cagcgggtct acgtatttcc tccaaagccg atcaccttga   420
cggacgagcg gaaagcccag cagctgcagc gcatgctgga catgaaggtg aatcctgtgc   480
agggcctggc ctccctctgg gactatgaga agaagcagtg gaagaagtga cttgcatccc   540
cagctgtctc cctgaggctc cgccctggct gggagcctct ggcggcccct cccctcccct   600
gcccttaacc ccagtaaagc tccaaa   626

<210> 6800
<211> 2126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)...(1350)
<223> similar to gi609316 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6800
gaggaaggac agcacagctg acagccgtac tcaggaagct tctggatcct aggcttatct   60
ccacagagga gaacacacaa gcagcagaga ccatgggggcc cctctcagcc cctccctgca   120
cacacctcat cacttggaag ggggtcctgc tcacagcatc acttttaaac ttctggaatc   180
cgcccacaac tgcccaagtc acgattgaag cccagccacc caaagtttct gaggggaagg   240
atgttcttct acttgtccac aatttgcccc agaatcttgc tggctacatt tggtacaaag   300
ggcaaatgac atacctctac cattacatta catcatatgt agtagacggt caaagaatta   360
tatatgggcc tgcatacagt ggaagagaaa gagtatattc caatgcatcc ctgctgatcc   420
agaatgtcac gcaggaggat gcaggatcct acaccttaca catcataaag cgacgcgatg   480
ggactggagg agtaactgga catttcacct tcaacttaca actggagact cccaagccct   540
ccatctccag aagaaactta aatcccaggg aggccatgga ggctgtgatc ttaacctgtg   600
atcctgaaac tccagccgca agctaccagt ggtggatgaa tggtcagagc ctccctatga   660
ctcacaggtt gcagctgtcc aaaaccaaca ggaccctctt tatatttggt gtcacaaagt   720
atattgcagg accctatgaa tgtgaaatac ggaacccagt gagtgccagc cgcagtgacc   780
cagtcaccct gaatctcctc ccaaagctgt ccaagcccta catcacaatc aacaacttaa   840

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acccccagaga gaataaggat gtcttaacct tcacctgtga acctaagagt gagaactaca    900
cctacatttg gtggctaaat ggtcagagcc tccctgtcag tcccaggggt aaagcgaccc    960
attgaaaaca ggatcctcat tctacccaat gtcacgagga agtgaaacag gaccttatca   1020
gtgtgaggta cagggccgat atggtggcat ccggaagtga cccagtcacc ctgaatgtcc   1080
tctatggtcc agacctcccc agcatttacc cttcattcac ctattaccgt tcaggagaaa   1140
acctctactt gtcctgcttc gccgagtcta acccacgggc acaatattct tggacaatta   1200
atgggaagtt tcagctatca gggacaaaag ctctctatcc cccaaataac tacaaagcat   1260
agtggggctc tatgcttgct ctgttcgtaa ctcagccact ggcaagggaa agctccaaat   1320
ccatcacagt caaagtctct ggactgggat attgaccctg gaattctact tagttcctcc   1380
aattccattt tctcccatgg gaattcacgg aagaggcaag gaccccactc tgtttccagg   1440
aaggccctat taagctggga gggtggggac aacttcggat gttaaatttt catggggga   1500
aaacccttg ttaccctgga catgtggagg ccattcagga acttcaccaa aatgtttcgg   1560
acaccataac aacaggctac tcaaactgta aaccagggat aacaagttga tgacttccac   1620
actgtgggac agttttttccc aaagatggtc aggaacaaga cttccccatt catggattaa   1680
gggctcccca cccccccta aactgtccct tgcctcatgc cctgccctct ttccacttgg   1740
gcagggttaa tggcagttca tttaggaatt ttcacatgta gttaggtttt tgaggggtta   1800
acaacaggag tgttcaggat atggttcatc ttcaaccttc aaactttta cgttaacatc   1860
ttcagggggg gaaatgtggg cttcttctcc atcttggcat acaggggctc ccaataggaa   1920
atggaacaca ggggttattg gcctgtgtgt tttgcagagg aggtgggttt ctataaagag   1980
taggaaagct gaaattatag tagagtctcc tttaaatgca cattgtgtgg gatggctctc   2040
accatttcct aaggagatac agtgtaaaaa cgtgacagta atactgattc tagcagaata   2100
aaacatgtac cacatttgct aaaaaa                                       2126
```



```
<210> 6801
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (227)...(783)
<223> similar to gi29408 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```



```
<400> 6801
ccccatccaa gactcaaact tagaaacttg aattagatgt ggtattcaaa tccttagctg     60
ccgcgaagac acagacagcc cccgtaagaa cccacgaagc aggcgaagtt cattgttctc    120
aacattctag ctgctcttgc tgcatttgct ctggaattct tgtagagata ttacttgtcc    180
ttccaggctg ttctttctgt agctcccttg ttttcttttt gtgatcatgt tgcagatggc    240
tgggcagtgc tcccaaaatg aatattttga cagttgttg catgcttgca taccttgtca    300
acttcgatgt tcttctaata ctcctccttc taacatgtca gcgttattgt aatgcaagtg    360
tgaccaattc agtgaaagga acgaatgcga ttctctggac ctgtttggga ctgagcttaa    420
taatttcttt ggcagttttc gtgctaatgt ttttgctaag gaagataagc tctgaaccat    480
taaaggacga gtttaaaaac acaggatcag gtctcctggg catggctaac attgacctgg    540
aaaagagcag gactggtgat gaaattattc ttccgagagg cctcgagtac acggtggaag    600
aatgcacctg tgaagactgc atcaagagca aaccgaaggt cgactctgac cattgctttc    660
cactcccagc tatggaggaa ggcgcaacca ttcttgtcac cacgaaaacg aatgactatt    720
gcaagagcct gccagctgct ttgagtgcta cggagataga gaaatcaatt tctgctaggt    780
aattaaccat ttcgactcga gcagtgccac tttaaaaatc ttttgtcaga atagatgatg    840
tgtcagatct ctttaggatg actgtatttt tcagttgccg atacagcttt ttgtcctcta    900
```

5468

```
actgtggaaa ctctttatgt tagatatatt tctctaggtt actgttggga gcttaatggt      960
agaaacttcc ttggtttcta tgattaaagt cttttttttt cctga                     1005




      <210> 6802
      <211> 2785
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (101)...(2624)
      <223> similar to gi4588046 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters




      <400> 6802
tagcagccag gcttggcccc cggcgtggag cagacgcgga cccctccttc ctggcggcgg       60
cggcgcgggc tcagagcccg gcaacgggcg ggcgggcaga atgagtctgc aggtcttaaa      120
cgacaaaaat gtcagcaatg aaaaaaatac agaaaattgc gacttcctgt tttcgccacc      180
agaagttacc ggaagatcgt ctgttcttcg tgtgtcacag aaagaaaatg tgccacccaa      240
gaacctggcc aaaagctatg aaggtgactt ttcagacacc tctgcgggga tccacagaca      300
gcacaggatt ctaagtccta gcatggccag caaacttgag gctcctttca ctcaggatga      360
caccttgga ctggaaaact cacacccggt ctggacacag aaagagaacc aacagctcat       420
caaggaagtg gatgccaaaa ctactcatgg aattctacag aaaccagtgg aggctgacac      480
cgacctcctg ggggatgcaa gcccagcctt tgggagtggc agctccagcg agtctggccc      540
aggtgccctg gctgacctgg actgctcaag ctcttcccag agcccaggaa gttctgagaa      600
ccaaatggtg tctccaggaa aagtgtctgg cagccctgag caagccgtgg aggaaaacct      660
tagttcctat tccttagaca gaagagtgac acccgcctct gagaccctag aagacccttg      720
caggacagag tcccagcaca aagcggagac tccgcacgga gccgaggaag aatgcaaagc      780
ggagactccg cacggagccg aggaggaatg ccggcacggt ggggtctgtg ctcccgcagc      840
agtggccact tcgcctcctg gtgcaatccc taaggaagcc tgcggaggag caccctgca       900
gggtctgcct ggcgaagccc tgggctgccc tgcgggtgtg ggcacccccg tgccagcaga      960
tggcactcag acccttacct gtgcacacac ctctgctcct gagagcacag ccccaaccaa     1020
ccacctggtg gctggcaggg ccatgaccct gagtcctcag gaagaagtgg ctgcaggcca     1080
aatggccagc tcctcgagga gcggacctgt aaaactagaa tttgatgtat ctgatggcgc     1140
caccagcaaa agggcacccc caccaaggag actgggagag aggtccggcc tcaagcctcc     1200
cttgaggaaa gcagcagtga ggcagcaaaa ggccccgcag gaggtggagg aggacgacgg     1260
taggagcgga gcgggagagg acccccccat gccagcttct cggggctctt accacctcga     1320
ctgggacaaa atggatgacc caaacttcat cccgttcgga ggtgacacca agtctggttg     1380
cagtgaggcc cagcccccag aaagccctga gaccaggctg gccagccag cggctgaaca      1440
gttgcatgct gggcctgcca cggaggagcc aggtccctgt ctgagccagc agctgcattc     1500
agcctcagcg gaggacacgc ctgtggtgca gttggcagcc gagaccccaa cagcagagag     1560
caaggagaga gccttgaact ctgccagcac ctcgcttccc acaagctgtc caggcagtga     1620
gccagtgccc acccatcagc aggggcagcc tgccttggag ctgaaagagg agagcttcag     1680
agaccccgct gaggttctag cacgggcgc ggaggtggat tacctggagc agtttggaac      1740
ttcctcgttt aaggagtcgg ccttgaggaa gcagtcctta tacctcaagt ttgaccccct     1800
cctgagggac agtcctggta gaccagtgcc cgtggccacc gagaccagca gcatgacagg     1860
tgcaaatgag actccctcag gacgtccgcg ggaagccaag cttgtggagt cgatttctt      1920
gggagcactg gacattcctg tgccaggccc accccaggt gttcccgcgc ctggggggccc     1980
acccctgtcc accggaccta tagtggacct gctccagtac agccagaagg acctggatgc     2040
agtggtaaag gcgacacagg aggagaaccg ggagctgagg agcaggtgtg aggagctcca     2100



                              5469
```

```
cgggaagaac ctggaactgg ggaagatcat ggacaggttc gaagaggttg tgtaccaggc   2160
catggaggaa gttcagaagc agaaggaact ttccaaagct gaaatccaga aagttctaaa   2220
agaaaaagac caacttacca cagatctgaa ctccatggag aagtccttct ccgacctctt   2280
caagcgtttt gagaaacaga aagaggtgat cgaggctac cgcaagaacg aagagtcact   2340
gaagaagtgc gtggaggatt acctggcaag gatcacccag gagggccaga ggtaccaagc   2400
cctgaaggcc cacgcggagg agaagctgca gctggcaaac gaggagatcg cccaggtccg   2460
gagcaaggcc caggcggaag cgttggccct ccaggccagc ctgaggaagg agcagatgcg   2520
catccagtcg ctggagaaga cagtggagca gaagacttaa agagaacgag gagctggacc   2580
aggattctgg cgacgacctc atcttccaag atggagaaga tctggacctc cacggagccg   2640
ctgtccccgc cccccgcgct cccgtctgtc tgtcctgtct gattctctta ggtgtcatgt   2700
tctttttttct gtcttgtctt caactttttt aaaaaactag attgctttga aaacatgact   2760
caataaaagt ttcctttcaa tttaa                                        2785
```

<210> 6803
<211> 3182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3183)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (208)...(1917)
<223> similar to gi3309252 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6803
```
gactgtggaa gcacgagctt acataagtgg ttaggcaagc tggcgtgtgg acttgtgtgg    60
gatgggtgca ggtctgcata taaatcatgt tcctgggttt ctgggtgtga agcgcacacc   120
gacggggacg agagcgcata ggatggcgct tttagatact tccagtcttc cgatgttgtg   180
atcgcagtgt gagtgaagac actcaggatg gctcaaggat ccggggatca aagagcagtg   240
ggggttgctg acccagagga gagttctcca aacatgatcg tttactgcaa aattgaagac   300
atcattacaa agatgcaaga tgacaagaca gggggtgtgc ccatcagaac agtcaagagc   360
tttctctcca aaatccccag tgtcgtcaca ggtactgaca ttgtgcagtg gcttatgaag   420
aacctttcca ttgaggaccc agttgaagca atacacttgg ggagccttat cgctgcccag   480
ggctacatct ttccaatctc agaccatgtt ctcaccatga aggatgatgg cacctttttat   540
cgtttccagg ctccgtactt ctggccttcg aactgctggg aacctgaaaa cactgactat   600
gccatctatc tctgtaagag gacaatgcaa aataaagcaa ggctggaact ggcagattat   660
gaagcagaaa acttagcaag actccagagg gcctttgcga agaagtggga attcatcttt   720
atgcaagcag aagcacaagt taagattgac cggaaaaaag acaagacaga aaggaaaatt   780
ttggatagtc aagaacgagc cttttgggat gtccacaggc ctgtgccagg ctgtgtgaac   840
acaacagaaa tggatatccg aaaatgtcga cgtttgaaga atccacaaaa ggttaaaaag   900
tccgtgtatg gcgtgactga agagtcccag gcacagagcc cggtgcatgt actcagccaa   960
ccaatcagga aaacacccaa aaaggaccat ccggaaacag ataacatttt tgaacgcaca  1020
gatcgacaga cattgtttga aaatgtccaa agtggctgaa agtttaattg cctacacgga  1080
acaatatgtg gaatatgacc ctttgataac accagctgag ccatccaacc cttggatcag  1140
cgaagaagtt gctttgtggg acatagagat gagcaaagac cccagccaac agcgagtaaa  1200
```

5470

```
aagatggggc ttttctttcg atgagatatt gaaggaccag gtggggcggg accagtttct   1260
acgattcctg gagtccgaat tcagttcaga aaacctcagg ttcctggctg gctgtccaag   1320
atcttaagaa acaaccccta caggatgtgg ccaagagggt agaagaaatc tggcaagagt   1380
ttctggctcc aggggctcca agtgcaatca acctggattc tcacagctat gagataacca   1440
gtcaaaatgt caaagatgga gggagatata catttgaaga cgcccaggag cacatctaca   1500
agctgatgaa gagtgacagc tatgcccgct tccctccggt caaatgctta ccaggatttg   1560
ctgctggcca agaagaaggg aaagtcgctg gcgggcaagc gctgcacggg cctgatgcag   1620
tccctcctga accgtcctca ccgcagtcca ggggcctggg gccgcnggga ccccacaggg   1680
caggcggcgg cgctccacat ctgcggacag agtttcctta cgaggagact tggtcactgt   1740
gaaggagaaa gagtgagggc aatgaagggc gatggtgggg agactcggtg ggtgaatggg   1800
gagaccagaa agaaagagtc cacagagcct gggctgggcc cggtggaggc tcctgtttac   1860
agccctctct tctttgtaca gttgtattcc aacactccac tcgctaagag gccctgatcc   1920
cagctcattc aggggagaac acgtcgtggg gttcctgtca cgactatcac ttgagattat   1980
attattatcc tcactccctc gctgtctgga gacggtcaca ccttctggca aattcaagag   2040
gcatgagtgg accgagagca catccagcat ttgcatcacc tccctggcac ctcccatagt   2100
tacagccact acatccccac cgccgcctgt catccctcac gtctctgtgg ccacccgggt   2160
gtcactgcca gcaccaggca ctgctttcac gtaaaatgtc caaatcacat cttcagcaag   2220
aaagcaacct cacggattgc cccgcctcaa ggtctttcca ccctctttga tatcagcgtt   2280
cggagaggtc cccgccagcc cggtggctgc cctcaggtcc cgtcacatgt ctcaagggtc   2340
cagcgttcga ggaagcactg ttgtagatga cagagctttt tgtttcacag ctgcggggat   2400
tctgctgacc atctttaga aaattatttc ataatttatt ctggctttgc ccccttgctc     2460
cttggtttat tccctcatgt tttactcaaa ataaacatgg ccatgaactc aggggccatt   2520
gggattctcc cctctggcag ccccaggtgg gagctgggag ggtccccagc ccaggaggtg   2580
gctggattgc agggctggca gcccccacgt ggtggcatcc tgacaggcac agtgagaccc   2640
ttgctgggtc aggtctcctt tgtgtgtgaa gctggggcag agtatgccta ccgaagggac   2700
caggccaggc cacagggctc tccctcccca gtctttatct gaaggcccca gcccaaagca   2760
ccccctccta aacccgggtc accctagggg gaaatgcaaa aacctgcaaa agatccacct   2820
gtattccctg tgtgtgtgtg tcaaaatgac catttgccaa cctggctgtg aggtaatgta   2880
tgtaaagcac cgagtcaggt gcctgatacg cagtaggtgc ttaacaaaca gtagctaata   2940
ctatcatcat tgtcattgtt attgtgacac ccatgagccc acagacagag ctgtattaag   3000
taacctgttt tgaatccaga cattcactcc cccacttgct atgactaccc tcctttgatc   3060
tattttggt cataggtaaa aaaaaaaatc tctcttggga gcatataaac aaaaaacata   3120
gaagcaataa agcgatcgct ggtatttctt ttctcatgca gccaaattcg ccaaaaaaaa   3180
aa                                                                  3182
```

<210> 6804
<211> 2695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (262)...(2514)
<223> similar to gi190664 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6804
```
ctcaaaaggg gccggatttc cttctcctgg aggcagatgt tgcctctctc tctcgctcgg     60
attggttcag tgcactctag aaacactgct gtggtggaga aactggaccc caggtctgga   120
gcgaattcca gcctgcaggg ctgataagcg aggcattaat gagattgaga gagactttac   180
```

```
cccgccgtgg tggttggagg gcgcgcagta gagcagcagc acaggcgcgg gtcccgggag    240
gccggctctg ctcgcgccga gatgtggaat ctccttcacg aaaccgactc ggctgtggcc    300
accgcgcgcc gcccgcgctg gctgtgcgct ggggcgctgg tgctggcggg tggcttcttt    360
ctcctcggct tcctcttcgg gtggtttata aaatcctcca atgaagctac taacattgct    420
ccaaagcata atatgaaagc attttggat gaattgaaag ctgagaacat caagaagttc    480
ttatataatt ttacacagat accacattta gcaggaacag aacaaaactt tcagcttgca    540
aagcaaattc aatcccagtg gaaagaattt ggcctggatt ctgttgagct agcacattat    600
gatgtcctgt tgtcctaccc aaataagact catcccaact acatctcaat aattaatgaa    660
gatggaaatg agattttcaa cacatcatta tttgaaccac ctcctccagg atatgaaaat    720
gtttcggata ttgtaccacc tttcagtgct ttctctcctc aaggaatgcc agagggcgat    780
ctagtgtatg ttaactatgc acgaactgaa gacttcttta aattgggaac gggacatgaa    840
aatcaattgc tctgggaaaa ttgtaattgc cagatatggg aaagttttca gaggaaataa    900
ggttaaaaat gcccagctgg caggggccaa aggagtcatt ctctactccg accctgctga    960
ctactttgct cctggggtga agtcctatcc agatggttgg aatcttcctg gaggtggtgt   1020
ccagcgtgga aatatcctaa atctgaatgg tgcaggagac cctctcacac caggttaccc   1080
agcaaatgaa tatgcttata ggcgtggaat tgcagaggct gttggtcttc caagtattcc   1140
tgttcatcca attggatact atgatgcaca gaagctccta gaaaaaatgg gtggctcatc   1200
accaccagat agcagctgga gaggaagtct caaagtgccc tacaatgttg gacctggctt   1260
tactggaaac ttttctacac aaaaaggcaa gatgcacatc cactctacca atgaagtgac   1320
aagaatttac aatgtgatag gtactctcag aggagcagtg gaaccagaca gatatgtcat   1380
tctgggaggt caccgggact catgggtgtt tggtggtatt gaccctcaca gtggagcaga   1440
tgttgttcat gaaattgtga ggagctttgg aacactgaaa aaggaagggt ggagacctaa   1500
aaaaacaatt ttgtttgcaa gctgggatgc aaaaaaattt ggtcttcttg gttctactga   1560
gtgggcagag gagaattcaa gactccttca agagcgtggc gtggcttata ttaatgctga   1620
ctcatctata gaaggaaact acactctgag agttgattgt acaccgctga tgtacagctt   1680
ggtacacaac ctaacaaaag agctgaaaag ccctgatgaa ggctttgaag gcaaatctct   1740
ttatgaaagt tggactaaaa aaagtccttc cccagagttc agtggcatgc caggataag   1800
caaattggga tctggaaatg attttgaggt gttcttccaa cgacttggaa ttgcttcagg   1860
cagagcacgg tatactaaaa attgggaaac aaacaaattc agcggctatc cactgtatca   1920
cagtgtctat gaaacatatg agttggtgga aaagttttat gatccaatgt ttaaatatca   1980
cctcactgtg gcccaggttc gaggagggat ggtgtttgag ctagccaatt ccatagtgct   2040
ccctttgat tgtcgagatt atgctgtagt tttaagaaag tatgctgaca aaatctacag   2100
tatttctatg aaacatccac aggaaatgaa gacatacagt gtatcatttg attcactttt   2160
ttctgcagta aagaatttta cagaaattgc ttccaagttc agtgagagac tccaggactt   2220
tgacaaaagc aacccaatag tattaagaat gatgaatgat caactcatgt ttctggaaag   2280
agcatttatt gatccattag ggttaccaga caggcctttt tataggcatg tcatctatgc   2340
tccaagcagc cacaacaagt atgcagggga gtcattccca ggaatttatg atgctctgtt   2400
tgatattgaa agcaaagtgg acccttccaa ggcctgggga gaagtgaaga gacagattta   2460
tgttgcagcc ttcacagtgc aggcagctgc agagactttg agtgaagtag cctaagagga   2520
ttctttagag aatccgtatt gaatttgtgt ggtatgtcac tcagaaagaa tcgtaatggg   2580
tatattgata aattttaaaa ttggtatatt tgaaataaag ttgaatatta tatatagtta   2640
aaaaaaaaag aatgaaatag aaaaaaaact aaactaatta gaactactgt ataat          2695
```

<210> 6805
<211> 862
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (845)...(281)
<223> similar to gi4454702 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5472

<400> 6805
```
gttttttttg tggaccccac tcaaaacgta tttattgaat gacaatttct tagtacagtg       60
tatactatcc ccaccaaagg aaaaaaacat taagagcaaa acaaggggtg gggggtggga      120
atattgctaa agaaaattct aataagagtt atctataatt atagctttta tttattatat      180
cttcattcaa tcatttatat cacaattagt ctaattgcat tcttgatgaa taactgactt      240
cagcaaagga gtcaatccac taagcaaagt tcatatatat ttttcaagat gttcttcttt      300
cgatcttgag tctttactct cctggattcc caagagaact gcattagcct ctagtacagt      360
tgtaatctgt tgttgctccc aggaacctag acgtaagttc aagatctaat agccgcaaac      420
cggaccctgg ttcctttctg ggtatttctc tccatccact tctggtcttc tacatacaca      480
atgaaacttt ccaccaaaat ctatgtacca gatcattctc cacaatatga aagatccgtc      540
caatgaccag tttatccttt gcaggtccca tctgtgtaag aggagaatgt ctcagcatag      600
atgcaaagga ttccacattt tttggagaac ccttctgtag gggctccacc ttctgtagaa      660
gctccgagtg ccgctccaac gcgctcgcga aaccgcctgc gcgcgtctta ggctccttgg      720
cattggaact accactttcg gatccactct cagtgcctac accccgaaag ggcctgaaga      780
agagaaacac tcgcagaaaa tggctctcgg cagccacagc acgggtccga cacagcgccg      840
ccatgacttc tttacctctg ac                                              862
```

<210> 6806
<211> 3261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3119)...(264)
<223> similar to gi508231 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6806
```
tttttttttt ctagctagaa aaggtgtttc ctcccatttt atttcataat acattttcac       60
agaaacatga tatatttaca aatatacagg taagagactg ctggtcagaa atcttaaaac      120
tcaaaatgtc atcaaaaatt aatttacaaa agccaccaag ggtccatgga ggcggccagg      180
tggatggtgt ggccggcgtc tgcgtgagcc tgcccagaag cccacgcagc ctcccggctc      240
tgcctccgct ggccccgtct caggaagcgc tggtttgcag gtttttggaa gctgcaagca      300
tcgctctgac tttggccatg agatcctgag tgattttgct ctgcacggaa gaaacgattg      360
ctgaagagat ctgggcttct tttcctgag agactcccct ggagcgctcc tggctggagc      420
cccgactctc cacaggggag acgctggctg agtgcgccga gtgggccgcg ggggccgcgg      480
gccggggcgc tgcctgcttg ctgggtgaca ccgactgaga cctggccttg gacttggtcc      540
gcgaccggga ccgcctcttc ttcttcttct cgtggggact tctggagcgg gtccgcttcc      600
tgctggcccc agggctgcgg ctcacgcggt aggcagtggg cacactcctc tcttccctcc      660
gtctctcagg ggagtgggct ctcctccgag gggaccggga gcgggacctc gaccgccgca      720
ctgtccgata ggcactggga agagaatgct ttgcttttga gtgtgatcta gacctggact      780
tggatgacga atggtacttg ggagaacgtg atcttgttcg agatcttttt ttgtgctttt      840
tcttttttctt ttctttctct tcttctctcg gtggatcttt gcttttgctc gaaggcctat      900
cgggtggttt aacttctaaa gtaggcagag gcctgcctcc agtcagtaga gggcagggcg      960
tagtgctgga ttcctcgaca ctgaaaggac tctcctcaat tttcccagct tctgcttccg     1020
```

```
gcagaggatt tttgagggtc tgtaaaaata acgccgcttt ccttttacgt tctgcttgaa    1080
gctgtttctc ttttgactcc ttagacgcct gggccagctt ttcccgggca gcagctgcga    1140
ggcgatcttc cagcttttgc tttgcttgct ttgcttctag ctcctcctgg gtaagttgag    1200
gcttcttctc ctcaacaact acacagggtg gggcaactgc tgggttagtg tttgcagcac    1260
tactagaact ttcttggcct tctttgcttt cttcatcatc atcactgtca tcatctagct    1320
taacacgatt tttttccagg ggaagcagat catttttcttt ggccttgatt gcaaagctta    1380
ttggagcaaa ggaagctttc accagcttcc cgtccgggac ggtcttactg gacgatgcct    1440
ccttcttccc gcctgagcct gcccgtgctc ccacctcggc tgcgtcttca ggcgcgccat    1500
cctccccagc atcacttggc ttctcgggag cagagtctgt gggagcctct tctggtgcag    1560
acacagcctg catgctatcg ccccccttctt tctggaggaa gaactgcttc ttaaactcat    1620
aataagcatt atactggtgc cacggctgca ggaactcaaa tctttgatca ttcttggcac    1680
gaacactggt ctcgaacttc aggccgttcc tggcgacata ctcggccagc ttgtcaatca    1740
cgggctggac gtcggggggc gggggggatga tggcggccac gggggcaagt gcacttgtgg    1800
tggtggttgt ggaggtggcc ccgctgctag tctctgctgt ggttggggggc ggtggtggtg    1860
tggtcccagg aggtggtggg gcggtggtcg tcactccagg ggagttagac acggtcacgc    1920
cagcaggaag ggtgctgtag taagtagtca cgtcgattcc gggagggggc ggcgcccagg    1980
cagtaagtgc cgtccggtag catgtagtag ctgtaataca tggctgccac ggtcgagtct    2040
gccgtgtact ccacctggga gggctgcaca ggcgcaccgt ctgcgttgtg tggggtggga    2100
gtggaactgt cagcctgtgc cttacgaaca agtgctgcga ggggatgatc tgggtccact    2160
accttcaagg gcttcatcag ctcttcaagg cggttacact tcttggaggc aaagagagag    2220
ggatgaaggt aattcccatc ttcttcatca tcatcatctt cattgtcaga gctgactcct    2280
gatttttttt tctcgtcact tttgtttttct gccaggacag tgtagcgtcc ctctttcatg    2340
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tgggagttcc gggcctgctt ggccttcagc atgatctcaa actgtgctcc ctgcctgcac    2460
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tcagacggga cgctcaatcc taaggggggca acgaagggct cttcattttc ctctaaattt    2580
tcggcctcat ttttttctct ctgtttggaa ggctcctcct cctccgtcgg ctctgacggg    2640
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gcttcactca atcgcttgta ttcttcctct tgccttgcct cctcctcaag caagtccgta    2760
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tgaccacgtc catcatatct gtcgatgagg atcttgtggt cccccatcca ggggatgagg    2940
tgctgtccct gttcctgagc cagggcccgc tcgtcgtccc ggaacagctt gcaggcatag    3000
ccgaaaacca agagctccac tcggctgccc ccaccgccgg caccgcctgg cccggcctcc    3060
tccttcgcgc cgctttttcct ctcgggtttg gcgcggcccc cgctcgcgcc gtacatgaca    3120
gcgtccccgg cgtccaggct ggtcctcttc tgtgccgcgc gacgtccctg atacctccac    3180
ttggcctacc ccttcagtca aagaccccgc atcccggacc caacctcaac accgccgcca    3240
tagcgggcct caaaaacgaa a                                              3261
```


<210> 6807
<211> 2142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2041)...(86)
<223> similar to gi6009642 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6807
```
tttttttttt ttgggatggg aaaactttat taggtttggt ttccagcttc ggccacgcgg      60
gctccgcccg ccccgagctc gggtcacggg gcgccccgc cgccctcctc gtcgtcctcc     120
acgtcgaggc ccgggatgcc gcggatctgg cgttgcagcg ccccacccag caagggcacg     180
gcgccctcct cctcctcctc tgggggcggg cggcggtggc ggcgacacgg ccccggggggc    240
tggctctggg ggcacgggag gctgcgccgg cacgccctct gcgccctccg gagatccctg     300
ccgcttcgcc ctgcgccccc tcgtccaggg caccgccttc aagcctcctc ctagctcctt     360
ctcctcctcg gggcttgtcc ggtgaaaagg gttctcgccc tttcaagtaa gcgctccagc     420
ttcttgctga tgagcttgtt gttgagaata ctgcgggcca ccatgaggga ggacttcttg     480
gactgctcca tcatgagcct gcggttccgg ttgtgattcc atggtcttca gatgcttctg     540
gatgatgcca aactggcatg ggaatgaaga gggtcgcagt ctgcacaatg ggctgtcttc     600
accttcttca caaatgctc catggcaatt tcctgggtca gatcctggtc tctgtagatt     660
tgctggatga ggccatcaag gtcctccacg gttttcgga gctcctctgt cttcttggtc      720
ttgttagtga cgtactcctg cagaaagtca gccgtctgct tagggagctt ggtgcctacg     780
tacttaaagt gttccttgtg gaacttgctg tcaagatggc tggccatctc gtcctcatag     840
aaggtccggt atttgcacag agaacacaca aactggatcc tttccaccat gcggtctcgc     900
tgccgctttt tctgcttgtc ctgactcttc ttgcctgcct gcaacttgcg cttggtctgg     960
ccattttcat cctgggtggt tagggccccc ttctctggat cctctttgcc ttcttctctc    1020
ccatcctctt ttccctcctc atcctctccg tccactctgg agcccttctc cacagcctcg    1080
gtgccttcaa ggccctctgt ggcttccccc tcggtgccct catcattgtc tgagtcgctg    1140
ttgtccgagc agtccgtgcg ggtggctttg ctatctggct catcaggact gccgccctgc    1200
tttctcttct tcttcttggt tcggaagtcg gctgtggtcc aggtcttcca ggtccgcctc    1260
atctgcttca tgccattgcc aaacccgaaa accaaaacgg gagccgcccg ggaaggcgcc    1320
ccaacctcgc atgcccctgg aacatgccgt actcggggaa tgatgttctg ggagaagagg    1380
gagggcaagc cgagaggcac cagacatgca ctggcccccgg gcccccatgg ggtcttccca    1440
catgcgccca tagcctgagg ccattggccg gccgctccgg gcatcccggg cccagccctg    1500
tgccctggga ccgaaggtgt cgttgccacg catgcggaac tggtcgcggt aggcatcgta    1560
ttggccctca taggccattt ccatctcagg gtcaagctcg ctgtagtcat agcctgaccg    1620
gtacaggtcg cgctcactca ggacggccct cgagtcgcag gactcataag agtcatacct    1680
ttctccactt gagccgtaca cgcctccttg catcatgtct gtctccaaat gcggcaccat    1740
atctaagcgc tggttaattc tggataaaac ggaatcggca ctggcgctac ccgaggcact    1800
agtgtttgca tttgtgtcag agctaggcat ttcccaagag tgtgaagtgg ccataccata    1860
cccatagttg gtggtgttat cctggccata gccatagcca tagccatagc cctcgtagcc    1920
tctatttgtc ccagagttcc aagttccata tccataatca caggtgggct gagcgctggt    1980
atccgagtat gtcgactgca aagtggtttc agatccctgg acaaagcctg tgtagctcat    2040
ggtggcgggc aacacaacat ccgacgacgc cggcttctgc tgctctgaac atccgacgct    2100
gcgatagctg ctgctaacca cagggtcccc cggacgcgtg gg                       2142
```

<210> 6808
<211> 2372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (475)...(1855)
<223> similar to gi479173 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6808

```
ggaaaggaag acacatttac aaatggatat ttattacctg tacataggaa aatttatgcc      60
ctgcatttat acaaaaaagg gagggcaaag agcaaattgg tttcagctca aaacaattct     120
tacatgaaag tggcatattt tggggtagca tacactgatc ctcttcaaaa ggaataattt     180
gcttttctct tatcatggtt atgagagcta ctttgaatta atttttgctt tttgaaagta     240
catttaattc tcaaatgttt ctgcttttga atgcagtttg ggagagccca tggtgactgc     300
gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt cctgagaatg     360
attggggagg gctccttcgg cagagctctt ttggttcagc atgaaagcag taatcagatg     420
tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa ttctaggaag     480
gaggctgttc ttttagccaa aatgaaacac cctaatattg ttgccttcaa agaatcattt     540
gaagctgaag gacacttgta tattgtgatg gaatactgtg atggaggggga tctaatgcaa     600
aagattaaac agcagaaagg aaagttattt cctgaagaca tgatacttaa ttggtttacc     660
caaatgtgcc ttggagtaaa tcacattcac aagaaacgtg tgctacacag agatatcaag     720
tccaagaata tcttcctcac tcagaatgga aaagggaaat tgggagactt tggatctgcc     780
cgtcttctct ccaatccgat ggcatttgct tgtacctatg tgggaactcc ttattatgtg     840
cctccagaaa tttgggaaaa cctgccttat aacaataaaa gtgacatctg gtccttgggt     900
tgcatcctgt atgaactctg tacccttaag catccatttc aggcaaatag ttggaaaaat     960
cttatcctca aagtatgtca agggtgcatc agtccactgc cgtctcatta ctcctatgaa    1020
cttcagttcc tagtcaagca gatgtttaaa aggaatccct cacatcgccc ctcggctaca    1080
acgcttctct ctcgaggcat cgtagctcgg cttgtccaga agtgcttacc ccccgagatc    1140
atcatggaat atggtgagga agtattagaa gaaataaaaa attcgaagca taacacacca    1200
agaaaaaaaa caaaccccag cagaatcagg atagctttgg gaaatgaagc aagcacagtg    1260
caagaggaag aacaagatag aaagggtagc catactgatt tggaaagcat taatgaaaat    1320
ttagttgaaa gtgcattgag aagagtaaac agagaagaaa aaggtaataa gtcagtccat    1380
ctgaggaaag ccagttcacc aaatcttcat agacgacagt gggagaaaaa tgtacccaat    1440
acagctctta cagctttgga aaatgcatcc atactcacct ccagtttaac agcagaggac    1500
gatagaggtg gttctgtaat aaagtacagc aaaaatacta ctcgtaagca gtggctcaaa    1560
gagacccctg acactttgtt gaacatcctt aagaatgctg atctcagctt ggctttcaa     1620
acatacacaa tatatagacc aggttcacga agggttcttg aaaggccccc tgtctgaaga    1680
aacagaagca tcggacagtg ttgatggagg tcacgattct gtcattttgg atccagagcg    1740
acttgagcct gggctagatg aggaggacac ggactttgag gaggaagatg acaaccccga    1800
ctgggtgtca gagctgaaga agcgagctgg atggcaaggc ctgtgcgaca gataatgcct    1860
gaggaaatgt tcctgagtca cgctgaggag agccttcact caggagttca tgctgagatg    1920
atcatgagtt catgcgacgt atattttcct ttggaaacag aatgaagcag aggaaactct    1980
taatacttaa aatcgttctt gattagtatc gtgagtttga aaagtctaga actcctgtaa    2040
gtttttgaac tcaagggaga aggtatagtg gaatgagtgt gagcatcggg ctttgcagtc    2100
ccatagaaca gaaatgggga tgcctagccg tgcccaccta ccctacttgt gtgattgtgg    2160
ggaaattacc ttaaccctct tcaagccccc aatttccctc aacccataaa atgaagataa    2220
taatgcctac ctcagaggga tgctgaccac agacctttat agcagcccgt atgatattat    2280
tcacattatg atatgtgttt attattatgt gactctttt tacatttcct aaaggtttga    2340
gaattaaata tatttaatta tgaaaaaaaa aa                                  2372
```


<210> 6809
<211> 897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (621)...(254)
<223> similar to gi4200218 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
        <400> 6809
attttttttt ccatttcat aaacagatct ttataatcat gtaaattaaa caatttgtc      60
tttaggagac gcgcacacag aacatagagg taagagctag aataccagca atcttaggaa    120
ggcaaaatta aatcatcttt tgggagaaga gagaaaattg tgaggagaag gtgccagtgt    180
caaagattgg cttggcgagg ttattttctc tctgggagtc tgggaggtga tgagctccta    240
ccgctcactg cctctgttgt cttgcctatt ggttcctttc tgggcaagga agaacgttgt    300
ctctcttta gagttttgta ggcctctgtc agtaatccgt ggaagacagc tgtcctgggg     360
cccagaatgg caagttctgt aagtgaatgt tttctgttgg gatgtcatca tggaaaggct    420
caggtgtagt ctggaatttg ggttgatgaa gactcattct ataactcata caattctcaa    480
aggatgcttt tggatcatct gggattttca ttgttcttgg ttgtaccatt ttcatttctt    540
gacatgtgga gcacagctgt tggtttctga gcagcatgga gtcacactgg ttcctcctgg    600
cctcagactt gctatcagct gaagcctggc ctccaagaag agctgctcca tttctatctg    660
gagaagggat gagggcattg aagagtcgtg gaaggcagct gtgacaggct actttaaagg    720
cgactcaaac atttgagacg ccatgtcctg caggcctcat ttcctccatt ctgtcttgct    780
ttctttccca gccctgaaac ccaggtcttt ggtctttttc ttctgttgca ttcccttctc    840
actcggtttc cttacgacca gctcagcagc aatcggacgc gtgggcggac gcgtggg       897




        <210> 6810
        <211> 2254
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1602)...(2095)
        <223> similar to gi5566106 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6810
gagcctttga gtctgaggcc aaagttgccc caccaccccc agctaagtct tcagctgtgg    60
catcctggcc cagccacaca agctgtggag gtgcggggga ccaactccca ctctgccctt   120
ggaccacaac cctccttgct gggcaccaag cccaggtttt tggtttgggg gggacactgg   180
cctgcttaca gcgggggagca gcacccaggg cggctctgtc ctgagcatga ctgtgctgtc   240
ccacagacca acaccaacta cagccaggag aagcaccgct gcgagtacct gcacagcaag    300
ctggcccaca tcaagaggct catcgccgag tacgaccagc ggcagctgca ggcttggccc    360
tagccgccct ccccgatggc ggggatctgg gagggtcggg ggagcaaaag gcggtgagag    420
aggatttatt taaaaaaata aacccgagga agatgctcat ctgagccagc accgccggct    480
ttcagggcag cccctgcaga cgtctggccc tggcgggtgg ctgcaagccc acctcggccc    540
tccctgcgct tcctgagcag tccctgctta tgatgggctc cccaggaagc ccactgcctc    600
ctccctggct gcagcctccg gggttcagcc tcctgtctcg ccagaagact cctaggccct    660
tggggtggcg cgcctgcctt ttctagtttt atacaaagac agccacttt agctactgct    720
aatgagactt gagtctattt ttgtacaaaa gagaagcaaa atctttttc taaacctgtg    780
cctccctctc ctcggacacc cagggtctag ccgctgccct gggtcctgcc tgcagtatta    840
cagaggtcgt cgaaaggtgc agctgcgttc tgaggcgtg gggaatgggc aggtggcctc     900
tgctggtctc tggctctacg tttaggcacc cctttcccca gcctctcctc cttgggcagg    960
gtctctgctc cagcaagcaa acagggtggc ccaggtggct attttgagaa ctccagctgg   1020
tgcccccaga cagctgctca gagccaaggg ggcagagggc tttcagcgcc cccaggcctg   1080
ccctgctatt tcaggccctc agctgtcggg ggccactgtg tttctgtgct ccaagttgag   1140
```

```
actcggccgc agcggcgtca gacttttctt tgcgatgtcc tcggttttcc cattttgttt      1200
gctgctgctg ctcattccac actgttgaga ccttgtggtc tcgatgctgc tggcctccct      1260
ccgtccctct gtccacttgt gggtcctggg gtcgtcttag cagagccacc gccaaggttt      1320
gcactcaggg aggggctgat ggagggctgg gcgccatggg gtcagggagg ccccagggac      1380
ccatgggcag agctggggag ccaggaggat gggtctgcct gctctggggg tgcaggctct      1440
gcagacaccc caattgctgc tctgttgctg tgcctagtct agtgtccccc aaagcatcgg      1500
ggggccacgc aagtgtgggt gtgtgagtgt gcgtatgtgg ggaccccca gggcatggtg       1560
gggtctgagg cgtgtgttcc catttagggc tgaatgaagc catgacttgg aaaggtggtg      1620
ggggggtggat ggcggctgtg actcatggcc cagggatcac atggggggtca ctgctgccat     1680
cagcagtcag gcagggagaa cagaaatgca aaaatacaga tgtgtctatt tttctaaact      1740
gggggggtgga ggggtgcctc ctgacagctt ccaaagagct gactgtggag ggcccacagt     1800
gtatcccacc cctgcccgag agtctctctc ctttgggacc ccccgggttc ccagagctcc      1860
gaggaaactg atccttcatg tttcaatagc tgttgttgtt tttctctttg ggccgggccg      1920
ggccggggaa gggccgagca ggctccagga ggcctccaga gtcagctgga ccttgctgtg      1980
tcgcccgcag gcagccctgc agacaccggt gaggtgggat gatttcagga ggtcccagcc      2040
cgggactgcc cgcccctctg ccctgggaac cagtccaagg ggctgtcagt tgaatttgcc      2100
tttttgttgt tgttgttgtt tttgttgttt atttgttctc cttttaagga attatgaagc      2160
taagaaaagt tttgtgtttt gggggttggt ggacaaagtt ctagctgatt aaatatggtc      2220
taacttattg atactatttt ttttctttta atgg                                  2254
```

```
        <400> 6811
gcgaccgccg gaaaagcgct tcggccacat ccagcagcag tagtcagccg caaggaccgg       60
gactcgaagg cccaccgcag ccggactaag tcgtccaagg agccgccttc ggcctacaag      120
gaaccgccca aggcctaccg ggaggacaag accgagccta aggcctacaa cgagacgacg      180
gtccctcaga ccactgggag gccgggacga cagaccggtg tcacacaggg cctctcagag      240
cctgaggagc cgcaagtccc ccagcccggc aggaggtggc agcagctcct attctcggcg      300
gctgccgcgc tccccgagcc cctacagtcg acgccgctcc cccagctaca gccgccacag      360
ctcctacgag cggggcggcg acgtgtcccc tagtccctac agcagccagc agctggcgcc      420
gctctcgcag tccctacagc cctgtgctca gacggtctgg aaaatcccga agcagaagcc      480
cgtattcatc taggcattca agatctcgta gcaggcacag attgtctaga tccagaagtc      540
gtcattctag tatttctcct agcacactaa ctctgaagag tagcctggca gctgaattga      600
acaagaataa aaaagcacga gcagcagagg cagcaagagc cgcagaagca gcgaaagctg      660
cagaagcaac taaggctgct gaggctgctg ccaaggctgc aaaagcttca aacacttcta      720
cacctaccaa ggggaacacg gaaactagtg ccagtgcatc acaaacaaac catgtgaagg      780
gatgtgaagg aaaattaaaa ttgaacatgc accttctccc tcaagtggtg aactttaaa       840
aaatgacaaa gcaaaaacaa agccacctct tcaggtaacg aaggtggaaa ataatttgat      900
tgtagataaa gccaccaaga aagcagtcat agttggaaag gagagtaaat ctgctgctac      960
aaaggaggaa tcagtatctc ttaaagagaa aaccaaacca cttacaccaa gcataggagc     1020
caaggagaag gagcaacatg tagctttagt cacctctaca ttaccaccgt tacctttgcc     1080
```

```
tcccatgctg cctgaagata aagaagctga tagcttacga ggaaatattt cagtaaaagc    1140
agttaaaaaa gaagtagaaa agaaactccg atgtcttctt gctgatttac cgctgccccc    1200
tgagctacca ggaggagatg atctttcaga gagtccagag gaaaagaaaa cagcaacaca    1260
gttacatagt aaaaggaggc ctaaaatatg tgggcctcgc tatggtgaaa ccaaagaaaa    1320
agatattgac tggggaaaac gctgcgtgga taaatttgat atcatcggaa ttattggaga    1380
aggtacttac ggacaagttt acaaagccag ggataaagac actggagaaa tggtagcctt    1440
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taaaattctc cggcagctta cccatcagag tattatcaat atgaaggaaa tagtgactga    1560
taaagaagat gctttggatt tcaagaagga caaaggtgca tttttatctgg tgtttgaata    1620
tatggaccat gatctgatgg gactactgga atcaggcttg gttcatttta atgaaaatca    1680
cataaagtca tttatgagac agctcatgga gggtctggat tattgtcata agaagaactt    1740
tttgcataga gatattaaat gttccaatat ccttctaaat aatagagggc agataaaact    1800
tgcagacttt ggacttgctc gattgtatag ctcaaaagaa agtcggccgt atactaacaa    1860
ggtaattact ttatggtacc gtccacctga actgctactg ggagaagaac gatacacacc    1920
agccattgat gtatggagct gtggctgtat ccttggcgaa ctcttcacta aaaaacctat    1980
atttcaagca aatcaggaac ttgcacaact agaattaata agccgaatat gtgggagtcc    2040
atgtcctgca gtgtggcctg atgtaatcaa actaccatat ttcaacacca tgaaaccaaa    2100
gaagcaatat cgtcgaaagt taagagaaga atttgttttt attcctgcag ctgcgctaga    2160
cttatttgat tacatgcttg ccttggatcc tagtaagcgc tgcactgctg aacaggctct    2220
tcagtgcgag ttcctccgag atgtggaacc ctcaaaaatg cctccaccag atctcccttt    2280
atggcaagat tgtcatgagt tatggagtaa aaagcgaaga agacagaagc agatgggcat    2340
gactgatgat gtttccacaa ttaaagcccc caggaaggac ttgtctctgg gcttggatga    2400
cagcagaacc aacacacccc agggtgtgct gccatcttca cagctgaaat ctcagggcag    2460
ctcaaatgtg gcacctgtaa aaacaggccc tggacagcac ttaaaccaca gtgaattggc    2520
aattctacta aacctactac aatctaaaac aagtgttaat atggctgatt ttgtccaagt    2580
gttgaacatt aaggtaaact ctgaggactc aacagcagct aaataaaata aaccttcctg    2640
ctggaatttt ggcaacaggt gaaaaacaga cagatccatc aacaccacaa caggagtctt    2700
cgaaaccgtt gggaggaatt cagccttctt ctcagaccat ccagcctaaa gtggagactg    2760
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ctcagcagtc aaagcagaaa gatgtgctac tagaagagag ggaaaatgga tcgggacatg    2880
aagcgtcatt acaactcagg ccacctccag aacctagcac tccggtgtcg ggacaagatg    2940
acctcatcca gcatcaagat atgaggatct tggagctaac gccagaacca gaccggcctc    3000
gaattctgcc tcctgaccaa cgacctcccg agcctcctga accaccacca gtcactgagg    3060
aagatctaga ttatcggaca gaaaaccagc atgtacccac caccagttct tcattaactg    3120
accctcatgc cggagtgaag gcagccctgt tacagctgct tgctcagcat cagccccagg    3180
atgaccccaa aagagaaggt gggattgatt atcaagcagg agacacttac gtgtccactt    3240
cagactacaa ggacaacttt ggatcctctt ctttctcttc tgctccttat gttagcaatg    3300
atggtctagg aagcagttct gctccaccac tagaacgacg tagtttcatt ggaaattcag    3360
atattcagtc tttggataac tacagtactg cttcatctca ttctggtggt ccacctcagc    3420
cttctgcctt ttctgagtca tttcccagtt cagtagctgg atatggagac atttacctca    3480
atgctggtcc catgttgttt agtggagaca aggaccatag atttgaatat agccatggtc    3540
ctattgcagt cctggcaaac agcagtgacc cttccacggg gccagagagt actcatcctt    3600
tgccagcaaa gatgcacaac tataactatg gtggtaactt acaggaaaat ccgagtggcc    3660
ccagcctcat gcatggacag acctggactt ctcctgccca aggacctgga tattcacaag    3720
gatacagggg acatattagc acatcaactg gcagaggcag aggcagaggg ttaccatact    3780
gagtatctgt ttttcctcag gcacatcatt tttatctgga aagactttc tagctgcaat     3840
ttaaggcagc aatccaagag acttgaataa taataattca acaacagctt tatttttatg    3900
tggagaaggg tcttgcatac aatagtttaa aaaagacaaa aaaaacctt gcttaaattc     3960
atgctgttct aaaaactaga tcgattgtac atcttcacaa attctagtta acaattttat    4020
tttgtattct tgcagtttta agtggatgct aattttaggg gcataagcct tttatggccc    4080
tcttgcagat cttctgaact atgcacattt gtgcttttt tgtaagtttg gaccaacttt     4140
tatgtaacaa acagccctc cccacctcca gtttacaac aatcagaaag ggcactgatt      4200
tatttggtat ttttcttttt acaaagctac ctttagtcaa aggtcactgt cagtctttgc    4260
acctgctttc agtgttattg tgaaaggtgt actttgtgct catttcagaa aataaaacac    4320
aacctttctc ttgatgcaac agttttataa aaaaaaaaa aaggggcggc cgtttaaag      4380
aaccctgggg gggcccaac tttacccggg cttgcaacgt aatagttttt tccttatagg     4440
gggccgtatt ataacctacc tgggaatttt gggaaaggac ccttatttt gggggggggac    4500
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                                    5479

atattgggcc aacctcccta caaaaattaa aggctttagg gaaaatataa aattttaaag 4560
ggtaaaaggg gtaaaactac ctgcatatgc ttgcggtttg g 4601

<210> 6812
<211> 2200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2201)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (185)...(2001)
<223> similar to gi5305443 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6812
tttcgtagcc ggtgctgctg caggctgagg ctgcggcaga ggcggcgagg cgcgggcggt 60
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aggctcctgg cagtctcaag cagttcatct tcttggtgta ctggtttcct attgtgattt 180
tatcatggaa aatcaattgg ctaaatcaac tgaagaacga acatttcagt accaggattc 240
tcttccatca ctgcctgttc cttcacttga agaatcatta aaaaaatacc ttgaatcagt 300
gaaaccattt gcaaatcaag aagaatataa gaaaactgaa gaaatagttc aaaaatttca 360
aagtgggatt ggagaaaaat tgcaccagaa attgcttgaa agagcaaaag gaaaaagaaa 420
ttggctggaa gagtggtggc tgaatgttgc ctatctggat gttcgtatac catcacaatt 480
gaatgtcaac tttgcgggtc ctgcagctca ttttgaacac tactggcctc caaaggaagg 540
gactcaatta gaaagaggaa gtataactct ttggcataac ttgaactact ggcagctatt 600
aagaaaagaa aaagtgcctg ttcataaagt tggaaatact cctctagata tgaatcaatt 660
ccgaatgcta ttttctacct gcaaggttcc aggaattact agagactcca ttatgaatta 720
ttttaggact gagagtgaag ggcgttcccc aaaccacatt gtagtgctgt gtcgaggccg 780
agctttgtc tttgatgtaa tacatgaagg atgtttggtc accccgccag agcttctcag 840
acaactgaca tatatccaca agaagtgcca tagtgaacct gatggacctg ggattgcagc 900
attaactagt gaggagcgaa ctcgatgggc taaggcacga gaatatctga ttggtcttga 960
tccagagaac ttggctttgt tagaaaaaat tcagagtagt ttactggtat attccatgga 1020
ggatagcagt ccacatgtaa caccagagga ttattctgag attattgcag ccatccttat 1080
tggagatcca acagtacgct ggggtgacaa atcctataac ttgatttcct tttctaatgg 1140
agtatttggc tgtaattgtg atcatgctcc ttttgatgca atgattatgg tgaacatcag 1200
ttattatgtg gatgagaaaa tttttcagaa tgaaggaaga tggaagggtt cagagaaggt 1260
acgagatata ccacttccag aagagctcat tttcattggg gatgagaaag ttttaaatga 1320
catcaaccaa gctaaagccc agtatctcag ggaggcatct gatctacaga ttgcggctta 1380
tgcctttaca tcttttggca aaaagctaac caagaacaag atgcttcacc cggatacgtt 1440
tattcagctt gcacttcagc tggcctatta cagacttcat ggacaccctg gttgttgcta 1500
tgaaacagct atgacaagac atttttatca tggccgtaca gagactatgc gatcatgcac 1560
agttgaagca gtgaggtggt gccagtccat gcaggatcct tctgtcaatc ttcgtgagcg 1620
gcagcaaaag atgttacaag cttttgcaaa gcataataaa atgatgaaag attgttcagc 1680
tggaaaagga tttgatcgtc accttttagg tctcttactc atagcaaaag aggaaggtct 1740
tcctgttcca gaactcttta cggacccact tttttccaaa agcggaggag gtggaaattt 1800

5480

```
tgttctctca acaagtctgg ttggctattt accgagtcca gggagtggta gttcccatgg     1860
tacacaatgg gttatggatt tttctaccat atcagagatg acaggtttgt tgtgggcctg     1920
ttcagcctgg gaaatcctgt cccgagactt gatgcgggaa aagctagttc agctgacttt     1980
ttgtgctttt catgatatgg atacagctgg atgaactctt actcatcttt gaggagatga     2040
attcatctat ttaaggcact tacccaaaac atatccatta aaacttgagt gctggggagt     2100
tgagttgggt aatatggaga tggggaaggg aatgtttgac ttgcttaaca ttcctttaaa     2160
caagttaaga aaacttgttt aaatgttgga antttggttg                           2200
```

<210> 6813
<211> 1651
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1615)...(109)
<223> similar to gi5081380 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6813
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tttttttttt ttactgggaa atgatgttct tctggacgta taaataacca tcaggtggcc       60
aattctcatc cagagtggac agggtggaat gggatcatcc ctgctttcaa atagggacat      120
tgacgtacag agagaggagt gggttagctg gggccccagg gcacagcttc accaccctgg      180
ggaggtctgg ggagagcatc ctgtccttca ggacaccccc caccagcggc tgggaggtga      240
gcacgccatg agtcgcccca ggtctgggaa gagtgggtgc atgggtgctt aagaggctgc      300
attcttcagc aggccctgca cctgccccgt ccttccaacc cctgtaggcc gacgttttcc      360
ttttgctcca cttggatgtc cgaagccggg ttcaagacca gtttttgagg gcctgaattc      420
aggctgtgct gcaggatgtg cacgcccttc agggagacca cggcaagctc ctgcagccca      480
tccccggaca ggtccacgtg agccatggcc agcaggggac tggagaagct ccgctgccac      540
agcagatgga acccgtgctg ggcctcagga agccccgact ctgggccccg gtacttataa      600
cacagcagtt cctgtccata ggtggccacc aggacttctg gccgcccatc caaatccaca      660
tcggtgacca ggctgcagag gacgctgtca aactggtcac tgccaggcag gagaagctgg      720
tcttcaagac cccggttcag caggtcccga tacaccactg ctggctccaa catgctggcc      780
acgagcacgc tgtactcatc ttgtagtggc ctgtccttgg tctccttggc ggccgagagg      840
ctgaacacaa tcactcggga gatgggaccg tcctgcagga ccgaccacat ctgcagaacc      900
tctcgactcc gctggtccac gtgggcgaca cggacataac cactctgaca gcccagagct      960
gagaggcgcc gggacgtgcc ggggaagttg tggacgtcca gccagaggac gctactggtc     1020
aggttcgtca gctctgggaa gaggtttttcc acgggctgtt cctcaaactg atgcagcccc     1080
tcgttctcct tgtagagatg aatggccggg tcgttcccac tcaagagaaa cacagtctca     1140
agttgatccc cgacctggac ctccgcatgg cacagctgga acggagtgaa ctggagctcc     1200
aggttcaggc agctctgggc aatagagtca aggttgtact cagagccggg ctcgtagtcg     1260
cagtaaatgt tcaggaaggg gctgcccttg tcccctgaat ccttgatgaa cgtgatcccc     1320
acaaccagac cccgcttggg gggtgacttg ttgaaagtgt cgatggagac aatctccgca     1380
tccacgggaa tgtagttgaa ctgcagctcc ttggccactg gccggatttt ctgtcggagg     1440
tcttggtagc ggaagccgag caccttgcct ttaagggtgg cggccagcag ctccccgcgc     1500
ccgccggcgc cgcctgccag cccgtacaca ttgctctgcg acgagaagcg cgtgaagctg     1560
tcctcgcgca acggacaagg ccccgcggcc acggccgcct cccccatcat gcccctcagt     1620
taagcaccct ctccgcagcc cccgccccaa c                                    1651
```
```
                                    5481
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<210> 6814
<211> 1644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1645)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1084)...(237)
<223> similar to gi491846 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6814
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ccaggtgcaa tgtctgggga cagactctgg gtacaatgct gtgtggcgac cactcactca   120
cacacggctc caagaaggcc cccaagggggg gacttacctt caggggggctg agccaagggg   180
gaaaggggtg gccccagaac aggggaaggg gcaggcatgg ggggaaaagg tgctacttct   240
tggcaaagga gatcttcatg gcgttgttct gcgtgatctt aaagccctgc agggcatcgc   300
gagctgcccc tgcctgtacc tcattgtcaa actccacgaa ggcgatgtca tgccgcccgg   360
gtaccagacg gacctccttg aagccaggga actgattgaa aagcatggac agcatgagct   420
cgttggtctc ctctggcagg ttggtgagga acaagatgtg attcggtgga ttctcagaaa   480
gaggctgggc aggggggcatc tgtcctggca taagctgctg cggggggcatg gcccctggtg   540
ggatctggcc aggtgcaagg cctggcgggg ggatcatacc aggggggcggc atgtagggcg   600
gctggcccgg catgtggtgc ataatgcggg gcgcctgagt catcggcggc atgcccggga   660
caggcccctg gacagccccc accacggggg tggctccccc gccttgcaca gcccnttctt   720
ggtggccggg gtctcctggc tcttgggctt cctcttctcc cgcttgcggt cccgctccac   780
gaaggtgcct ttcatcttgg caatgatatc tgagtcggtc ttggcatact ggatacgcat   840
aggtttgtca tagaaaggga aaccctgcat ggagcgcagg gcgttggtgg cgctgctgac   900
ctccttgaag atgacaaagg cctggcccct catcttcagg ctccgtgata ccaggatatc   960
caggatctgg ccaaactggg agaagatggc gtacagggac tttttttagct catccttctt   1020
gatcttctca ttgaggttgt tgatataaat agtgtggtta gggcgggtct cgggaactgc   1080
catggagtga agtgttgagg taagtcttaa aggaggaaaa acgtgacttt agccctgggt   1140
ttctccaaat cctttgtccc aacgtcggct gctcaaggat cttcctccga aaaggaagtc   1200
aggtaaggcg ggagtagggg gaaggacgga ggcaaagcgc gacaacaaag cgtgcgtagg   1260
acccgcttct ccagcccgcg tgcggagaga actctcgaga gatttactac gacttccagg   1320
atgctctacg cgacccggtg ggcggagcac cctaaatggc gattcccatt ggcccaagca   1380
tccgaagggc cgtcccggag aaaaaacccg gatgtgggag ccagtataga aaaaagggac   1440
aggtcctagg cagcctggcc tcgagcagca agtttcctca gacgggccca ggaaggcccg   1500
gacgccaagc gtaccgctcg cctgccgccg .atggtcgttt gcaccggagg ttaccttccg   1560
acagggccgt agttctctca accggcgcct gctacttccc tgagaccaaa ccacaaagct   1620
ttctctcctg gccccgccac gaaa   1644

<210> 6815

<211> 2738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)...(394)
<223> similar to gi895999 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 6815
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accctagcga cctcaagcca gtcacctgga accagcacca gctggcccac ctacagcaga     180
tgtgcagcga ggctagtggg acgccagccc ctggcctgac aggcaagcat gcggcaggac     240
gcgagttggc agggcctggc tttgtgggca aggcccctgc ctacccgcag gaactctgcc     300
tggcgcagtc cttccatctg aagccacccc tggaaaagcc gaccccatcc ccaccagtca     360
acggcatggc agccccattg gcctacccca atggtcacta cttccaaccc ctgtggaaca     420
acattctgcc cactcccaat agcgacagct cggggtctca ggaccttgcc atgccgttcc     480
acggtgggca gcccacaggt gcacccctcg actgtgcggc agctcccggg gcccactacc     540
gagcagggac cggggggcggt ccagtggcaa gccagaacag cttgatgcaa acagtggatt     600
acctaagtgg ggatttccaa caggcctgct tccgagaaca gagcctggcc atgctgagca     660
aggcccaccg agccctggc aaccgagccc ccgatcccac agagagtcga agtcttcata     720
ttcagcaccc agggtataga taggtagccc tgctgccctc cacgtgcaac acatcataca     780
tcaccctcct aggtttagtc ttttaagtaa ctggatagtt tcaaagtttc actgctccag     840
tgtgatcatt cttagatgtc taagaaaggg aatttggtgg gatctaagtg gggacagaag     900
gggtcctctc gtcctcccct ccagcaactt ttggttttat gttagaacct aaccctaagc     960
ccaggctttt ctctccactg actgcctgtc agctagtctc tccaccttgg ccatttccag    1020
ccagctccca cccatctttt cttgaatctc ttcctgtttc ccttaggacg actgaggtgt    1080
gggctgacgg aatgccctag ttgaggtagt ataggtgctc aggcccctaa tccagacctc    1140
tacctgttgc tacccccctt cccctccctc caggactaag aagcaagatt tcccaggtgc    1200
tctgaaagct aattacttac tcatcgaagg atctcaaatc aaagctgacc cagtcttcat    1260
atccttcaag ttcctttcca ttcctcaagg ctttgttttg tgtctatatt gatcccacag    1320
ccactgcact tgcccttgcc acacttgatc tcaagggcat cttggaagta tttgaccatt    1380
tcttgagata tggggggaaa aagtctttgt attggcatct tggttccaga ctcccctttc    1440
caaacctaga aaaatacagt gacctttgag catacccaag atccctttct cactgttgcc    1500
tgtcccctaa ctcacctccc cacagcccct atcctttccc cctcaacaaa aacaaaatct    1560
accttacttg aggaattagg taggtaagga atgatcacat tggagtttgg gattaaaaac    1620
accaaaaaaa aaaaaaatgc atttggttct ctctacactg gctaagaata ttgctctaca    1680
ctgtaagttt taaacgttac gtttctgtat gaatgtagtg tgggtttgag tagcattgtg    1740
tgtgagtggc cccacaggta cattcaccct ctagtcagc ccctcagttt aatgaaggaa    1800
aaaaaaacaa acacaaagcc ttaagctctt tgagtacttc ctttaccaaa tgagcatggt    1860
tctaacacct ggagctgggc ctacattgga aacaagcccc tcctgccctc tgtccattct    1920
tagagcatac cttcatccac tccatgctca gcacgtctca tcccaagcga caattagttg    1980
gctagaaaca cttttctgta attttaaact tagactgttt tgttacaaat ttttgcacca    2040
ttctgttaaa gatgcagaat tgggcttttt tattttttac agatgaaata agcccttacc    2100
tttcctcttg tctctgggga atgtcagctg atggttctta tttaaggttt tgcattttgt    2160
tcactatcca ctactgttcg ttagccagaa attctctagt gatctgaagc aatgtgactg    2220
aagaccagtt ttaagttatg tgttggcaag ttgccttata tttaaaagga aaaagaaaaa    2280
aaaaaaagcc tgattgtgtt atgccaaatg atagcaacat gaagtcctaa tttattgttc    2340
ccaattgttt tcctgccgtc tgtgaacact ggtacctccc tgtcctgatc ccccaggagc    2400
acctgtagct tctgactcaa tgccttctcc gaaggtgttg gccgccatct cacccagggc    2460
cctcttccag ttcctgcttt tctgagtcag atttaaagag caccactgtc ttcccctac    2520
cccttgcttg atctccaaag cagatattct tgctgtattt tttttcctc cccaatacct    2580
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ctccctgaaa ggtggagctg ctattttagg aaactgggac cagacaacaa cttggggget    2640
ttaagtcaaa caacctcaaa cccatctctt cctgtgtagg ggtgcaagcc tctgaagctc    2700
tcactcccac ccttagtctg catggaaaat gactggga                            2738




        <210> 6816
        <211> 5669
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (5429)...(1873)
        <223> similar to gi4240147 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6816
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accatgtaac caaatactta aatatatcca caacatctat accacagaaa tgcatagtac     180
ataatatact aacatctcaa aataaacttc tattacagtt ttatgcaaat tatggtaaaa     240
gattatcacc tgccacattt tgaaatggca ccaacttcaa catcaatgca ctagtcaaaa     300
tccttactag aagtgatgtc ttctgcatta tcatctgaac attcaaaatc aagctgttaa     360
tctaataacc acagtatgtt atcatttaaa atcactgtat atttggatgt taaagcaggt     420
agtaatacag caggaaaagt gtttctaatt cacagtttca aaactaaagg gtgcagtttt     480
caaatatctg attgcttaaa ttggtcactc aatttaacaa ctgcctcctt caatacatgt     540
aaactatgtt tgcacagcat taggagatgt ctttatttc agaattagtt cttactgtta      600
caggagcacc acaaatttta aggaagaggc tacagtgtga aatgagctca ctgaaggata     660
tgttaaataa aatttaact acaatataag gtactgcaaa agctttgttc cccagcacag       720
atcccttaat caggaaaagt agtgaacact tacccaatac aatatgtaaa ttcgctctac     780
aggagatggg gaaaaaccta actcaactaa aagaaaatac tattattagc taacaaacct     840
gtgatagctg gcttcagaat tttcctaaaa ataaaattca aaagcataca cagtatttat     900
atcctttgat aaggaatgta gacatccaaa cggaatgaaa gaaaaatctg gttttaagaa     960
tttctaagtg gaatcacaca cacacaaatg ggtaactgag aaaaactaaa tattcaaaat    1020
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gaaaacatct gcaaattcac actggcatta agaaaaccca agtctcaaaa attctccttt    1140
ctttctctcc agataatgtg ttttctgtgc aaaaataaat atctgaaaat tgcactaata    1200
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ttgtaaactt actcatgcaa aattagtgtg cgcaacaggg atattgttaa ttttcatact    1320
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cttatatgga tattcttgtc tgccagctaa aaatcaattt atgttgctga aaacaaaaag    1440
ttatacaaga aaaagaaaca tggttttgt tttgcaagat ttttgatttt taaatgagaa      1500
aatttataaa agaaagaaat tcatggtcac aaaattttaa cattttaatc ctaaacatta    1560
cagggtaaat agatactgga ccctatctcc atactccata aaatcctaac ttttagtttc    1620
catttcaaat gttgctgtaa ccactaaaac actagtggtt ttacaacctc tggattatgg    1680
aaatacacat ttctgaaata aatgctacaa aaacaacaat ggaagaaagc caaacaaaca    1740
gtctccatga aggaaaaaaa agtggaacat tttgaagctt ttagacactt ctctttccat    1800
gtcttatgat taacctgtca attcagtgca ttgtatggtc atatgtaatg gtccccatgg    1860
tgaacaaaca tctaactagt gtccattgat tccaagttag tagatgatga atctttctgg    1920
atactttcaa agatagccgc cagctcaggg ttagaactga tctgtgactg gaattcactc    1980
atcagtggac tcttctctgc ttctggaatg gttagtagtg ctgctactgc tctcatggca    2040
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5484

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gttgtacatg ttgcacgtaa tggctcaaca agtcggtcca acctctgcag tactgcactt      2160
ggacaaaggg tagacagtct caccaacatt aaaaatgtca gcatcttaat atcataatgg      2220
tccttcaaac catcttcaac atgatttaga aattcaaaga tatcaagtct atcaagacaa      2280
ctgtctagaa gtgtgtacat acactcaaat gctgcctttc taatatccag accatcatca      2340
accgtatgtt taaatggacc catttctacc tctcttataa gctcctttct aactttgtt      2400
tcattgtaaa gatgtggaag aacagtatcc aatagatccc ttattaatga tggcttgtta      2460
tgtgctgctg aattaaatgt gaccaaggct actcttctca cattcaaatc tgggtcttcc      2520
aaagtttta ggaaatcacc tatgcagttc tttaacagtg gatcaatagg ttgtggatgg       2580
tcagaaattg taaattttcac agccgtaacc actgagcttc gggcatatga tgagcctgat     2640
atcaagtacc ccttaagccg tggaaggaga gtttctggat caattagagt gagtttttcct      2700
agacattcag caacaacatt tctggttcct tcctctgcac actcacagtg ctttagtaat      2760
aaggcccaga tgtttcaac atatggttta aggcccacca ctgatgcaga gctaataatt       2820
tccttcaagg aatgaagtaa aagatactgc cttttgggtt gactagttat ttcttgcagg      2880
acaaacggca gatattcagg aaggttgccc acactaatgc tgcctaatgc ataggatgca      2940
gctgatttga cttcttcact aggagatgag aaagcttcta gtattacaga ttttagttcc      3000
aactgtccac ttaagtcaat atgatgccca acttctccaa gagaaagtag agctaagaga      3060
cgaatggaat ctgtagacct tgagttcttg acatcttgaa taaactgacc tactacagct      3120
ggtccctctt tagggcatgc tcgagtaagg gcagctacac atttggcaat ggaataataa      3180
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aaatccatgt atcctaaatt atttgttcca gtgacaacca gagcttggaa aaagtctagc      3300
atggcactaa gagctccccc ctgcaataag ggtgatctca caagtccaat aagttcattg      3360
agaatggatc cacttatctt tgaaagggag gagggatata cttttgccaa agtggtaaga      3420
aaactgatgg ccatttgtga aacatgcata tcactttcgc tgataagagg tgggagctca      3480
tctagaactg catcaatcat ggcagctgtc aagctgtcac tatagttttt tattagaata      3540
tcaagggcag aaagagtacc cagtttcaaa gctctctggt tttttctaag aaatgaagca      3600
aggataggaa ccccttctcc cagaacaggc ctcaaatcta tcttcaaagg tgacccagca      3660
atcagtgtca atgcctttac tgtagttaac ctggtaattt cattctttag tctctccaag      3720
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tgtcccatac aggaaatagc cctttccttg acttcctgat caatgtcagc tgcttttaat      3840
ctcttaatgg tacaggtaaa tagatctttg atataaggag ttgcatcaaa cgaggaaggc      3900
tgatctaaag gacgaattac tttgacaagc tgttgagtaa caagaagtgc ttcagatgta      3960
attttgtaaa atgggtctcc aacacaagcc accactggag gaaccaaagc ctgaacgtga      4020
ggatggaaga cttgaggaga atggttacag aggattacgt atagacatga caaagcatcg      4080
atcttcaaat tcgatgagct tgatttatca ttcagtgaga aaatgattcc tggtacaagt      4140
acaggaatgt gttgagttag ggccccaggt aatacattta ccagctcagt taacatgtta      4200
aaacaacact gtcgggtctt cacacttttt tctttcatct gtttgtgaag agctttaaca      4260
atgttgggaa cctgactctg aagcattgtt aaaggtgttt ctccctgctc cattgcatca      4320
gggtcacata gccaactttg tacaggacga gtttgcttca aaagagaaag gtatgcgtga      4380
aaaacatctg cccttacatt ctcctcacgc tctttaaatc tggatattag tgcagggaga      4440
gacggtcttg tagaattctg gaagcatttc atgccttgtg ctaactacag catccaagca      4500
cttcgcagct gcacgtctca ctttccaact catgtcatca tcatcactgt attcatcatc      4560
actcccttga tcatcatcat caccaccatc agcatccatt gcattttcat cttcatcttc      4620
atcatcgtaa ttataatttg gatcataggt aagatattta agacaaatat ttataatggt      4680
agaaacatga ggatatactt ccttaggaca tcttcttaca aatgattcaa aggcttgaat      4740
acagtactct cttaattcat catcatctac attgcaaaat tttaccacca aaggaattat      4800
cttctcaagg tattcaccta ttctatgacc agcttgccta ctaatagcag caatacattg      4860
tatgtaggtt cttgttgttg acatagaatc atttttggac aactctgaca acagatgttc      4920
aataagatct acaaaaacta tatttccaca gctcataacc agatggccaa gagcgataat      4980
ggttcttttc ctcactgcaa gtctagggct ggtcaactgg ggaagtagac aggtcagaat      5040
tgaaggatgg aaattaacaa gaagtcctcc ttgcctgctc aacatatcag ccataatatc      5100
caaggcttct agctgaacag agacatcttc ctgttttgct attgcacttg taagacgtcc      5160
agtaatcttt ttacatacat tagcagctaa tgcagagcca ctggaagctg gaggaagttc      5220
tccaattact gttttaagac caatacttga aatgtctcga agttgttctt tatcagaaag      5280
catgttagtg cagagggtat ctacaattgt ctctacttgg tattctttca ctttactcac      5340
taaaggacca agacatttga cagctaaatt ctgtacctct ccatttttat cttccaataa      5400
cttcaaaatc attttcacta cttccttttc actatcatca tccaacttga tggaatcttt      5460
```

5485

```
ctgcagttcc gtcatcaaat catttgtagc cataaaccta aagtccttgt cgctggatgt    5520
cattttttcc agcaaattgg aaatgtggta cgaggcgctc gccatgttga cggcctcgat    5580
cccgcctgct ggcgctgctg gagctgctgc cccccgccgc tgccgccgcc gccgccgcca    5640
ctgaagctcc tcctctcgct cgcggccgc                                      5669
```

<210> 6817
<211> 2580
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (245)...(1499)
<223> similar to gi559441 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6817
```
gcgcgccgag gatgcgggac tagccgggca ggctgctggc ggccgtcggg ccagcgaggc      60
ctcgcagcgg gcgggccctg gcgagtagtg gccgggcgcc gcccctgcg ccctgaggcc     120
cgggcccgc cgcttctgct ttcccgcttc tcgcggcagc ggcggccgag gaggcgcccg     180
cgccggccgc ccccggggga agccgcgccg tctccgcctg cccggcgccc tgacggccgc     240
tgttatgcgt attcccgtag acccaagcac cagccgccgc ttcacacctc cctccccggc     300
cttcccctgc ggcggcggcg gcggtcaaga tgggcgagaa cagcggcgcg ctgagcgcgc     360
aggcggccgt ggggcccgga gggcgcgccc ggcccgaggt gcgctcgatg gtggacgtgc     420
tggcggacca cgcaggcgag ctcgtgcgca ccgacagccc caacttcctc tgctccgtgg     480
tggccctcgg acttggggct gcaacaagac gctgcccgtc gccttcaagg tggtggcatt     540
gggggacgtg ccggatggta cggtggtgac tgtgatggca ggcaatgacg agaacttact     600
ccgttgagct gcgcattgcc tcggccgtca atgaagaacc aggtggccag gttcaacgac     660
cttcgcttcg tgggccgcag tgggcgaggg aagagtttca ccctgaccat cactgtgttc     720
accaaccca cccaagtggc gacctaccac cgagccatca aggtgaccgt ggacggaccc     780
cgggagccca gacggcaccg gcagaagctg gaggaccaga ccaagccgtt ccctgaccgc     840
tttggggacc tggaacggct gcgcatgcgg gtgacaccga gcacacccag ccccgaggc     900
tcactcagca ccacaagcca cttcagcagc cagccccaga ccccaatcca aggcacctcg     960
gaactgaacc cattctccga cccccgccag tttgaccgct ccttccccac gctgccaacc    1020
ctcacggaga gccgcttccc agaccccagg atgcattatc ccggggccat gtcagctgcc    1080
ttccctaca gcgccacgcc ctcgggcacg agcatcagca gcctcagcgt ggcgggcatg    1140
ccggccacca gccggcttcc accataccta cctccgcca ccctacccgg gggccccgca    1200
gaaccagagc gggcccttcc aggccaaccc gtcccctac cacctctact acgggacatc    1260
ctctggctcc taccagttct ccatggtggc cggcagcagc agtgggggcg accgctcacc    1320
tacccgcatg ctggcctctt gcaccagcag cgctgcctct gtcgccgccg gcaacctcat    1380
gaaccccagc ctgggcggcc agagtgatgg cgtggaggcc gacggcagcc acagcaactc    1440
acccacggcc ctgagcacgc caggccgcat ggatgaggcc gtgtggcggc cctactgacc    1500
gccctggtgg actcctcccg ctggaggcgg ggaccctaac aaccttcaag accagtgatg    1560
ggccggctcc gaggctccgg gcgggaatgg gacctgcgct ccaggtggt ctcggtccca    1620
gggtggtccc agctggtggg agcctctggc tgcatctgtg cagccacatc cttgtacaga    1680
ggcataggtt accacccca ccccggcccg ggatactgcc cccggcccag atcctggccg    1740
tctcatccca tacttctgtg gggaatcagc ctcctgccac ccccccggaa ggacctcact    1800
gtctccagct atgcccagtg ctgcatggga cccatgtctc ctggacaga ggccatctct    1860
cttccagaga gaggcagcat tggcccacag gataagcctc aggccctggg aaacctcccg    1920
accctgcac cttcgttgga gcccctgcat cccctgggtc cagcccctc tgcatttaca    1980
```

5486

```
cagatttgag tcagaactgg aaagtgtccc ccacccccac caccctcgag cggggttccc    2040
ctcattgtac agatggggca ggacccagca cgctgctggc agagatggtt tgaggaacac    2100
atccaagcca gtcccccag gcccagcttc ccctccgttc ctaactgttg gttttccccc    2160
agccgcacgg gtcccaggcc ccagagaaga tgagtctatg gcatcaggtt cttaaaccca    2220
ggaaagcacc tacagaccgg ctcctccatg cactttacca gctcaacgca tccactctct    2280
gttctcttgg cagggcgggg gaggggggat aggaggtccc ctttccccta ggtggtctca    2340
taattccatt tgtggagaga acaggagggc cagatagata ggtcctagca gaaggcattg    2400
aggtgaggga tcattttggg tcagacatca atgtccctgt accccctgg gtccagccaa     2460
gctgtgcccc atcccccaag cctcctggga ggatccagcc aaatcttgcg actcctggca    2520
cacacctgtc tgtaacctgt tttgtgctct gaaagcaaat agtcctgagc aaaaaaaaaa    2580
```

<210> 6818
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6818
```
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag     60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc    120
cctgtgggtg gggtggggc tggaacctat gaacattctg caggggccac tgacttctcc     180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg    240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg    300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt    360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac    420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg    480
aggggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa    540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct    600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag    660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt    720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac    780
cgcnctgact aatgtcatca gtgnntcaat tnnccccct cccctcg                   827
```

<210> 6819
<211> 2407
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)...(1490)
<223> similar to gi4559322 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6819
```
gccaggaatc cctgggtcgt cccacgcgcc cggcccgacc acgtgtactg tggagactgt    60
caaagtctcc cggagcccaa tttccggaag cggtgagttc tgaaagaagt tcctgcaccg   120
tagtttccca agtctgcgaa tccccaatca tgagcgcctc gggcgtactg tcctttaccc   180
agcaaggatg ggagcaggtg ctggccaaag tgaaacgggc tgtggtttac ctggacgccg   240
cctgcgccga gagcctgcac tggggctgcg gatccacccg tctcctggag gcggtggggg   300
gtcctgactg tcacctgcga gagttcgagc ccgacgcaat tggtggtgga gccaagcagc   360
ccaaggcagt gtttgtgctg agctgcctgc tgaaaggccg gaccggtgga gatcctacgg   420
gacatcatct gccgcagtca cttccagtat tgtgtggtgg tcacaaccgt gagccacgct   480
gtccacctca cagctaatca tgtcccagcg gcggcagcgg ccgagatgga ggggcagcag   540
ccggtgttcg agcagctgga ggagaagctg tgtgaatgga tgggcaacat gaactacacg   600
gccgaggtgt tccatgtccc gttattgctt gcccctgttg ctccccactt tgccttgact   660
ccagcttttg catcccttttt cccactgcta ccccaggatg tgcacctcct taatagcgcc   720
cgaccggaca agaggaagct gggaagcctg ggtgatgtgg actccactac gctaaccccca   780
gagctgctgc tgcagatcag atgcctagtg tcaggcctca gttctctgtg tgaacattta   840
ggagtacggg aggagtgttt tgctgtaggt tccttaagtc aggtcatcgc tgcggatctg   900
gccaattatg cccctgcaaa gaacaggaag aagactgctg caggcagggc atcagtggtt   960
tttgtggaca gaaccctgga tctcacagga gcagttggac atcatggaga caacttagta · 1020
gagaagatca tttcagcact tccccagctc ccaggccaca caaatgatgt gatggttaac  1080
atgatagcgc tcactgcact ccatactgag gaggaaaatt ataatgtggt tgcaccaggc  1140
tgtctttcac aatccagtga caccacagcc aaagccctat gggaagcttt actgaacact  1200
aagcacaaag aggcagtgat ggaagttcgg agacatctag tggaagcggc aagcagagaa  1260
aacctgccaa tcaagatgag tatggggaga gtcacaccgg gacagctcat gtcctatatt  1320
cagctcttca agaacaacct caaagctcta atgaatcatt gtggcctcct ccagcttgga  1380
ctggccacag ctcaaacgtt gaaacaccca cagactgcca agtgggacaa ctttctggct  1440
tttgaaaggc tccttcttca gagcattggg gagtcagcaa tgtccgttgt gttaaatcag  1500
ctgctgccca tgattaagcc tgtaacccag agaaccaacg aggactacag ccctgaggaa  1560
ctgctgatcc ttctcatata tatttattct gtcactggag agctcacggt agacaaagac  1620
ctgtgtgaag cagaagaaaa agtcaagaaa gcattggctc aggtcttctg tgaggaatct  1680
ggatcgtcac ctttgctgca aaaaattacg gactgggact cttcaattaa tctgacattt  1740
cacaaatcca aaattgccgt ggatgaactc tttacttcac ttcgggatat tgctggagct  1800
cggagtctcc tgaaacagtt taagtctgta tatgttcctg gaaatcatac ccaccaggca  1860
tcttataagc cattgttgaa gcaagttgtg gaggaaatat ttcatcccga gaggccagat  1920
tccgttgata ttgaacacat gtcttcaggc ctcactgatc tccttaaaac tggatttagc  1980
atgttcatga aggtgagccg ggccttcatc cttaggtgac ttaccccccct cctgatcctc  2040
ttttgtggta aggtggggtc acagtctctg gaagtgaaaa tgggtccaaa gatcttgtgg  2100
catcgttgaa gccaggaacc caggtaatcg tgctgtccac acgactcctg aagccactta  2160
acattcctga gctgttattt gcaactgacc gactgcatcc agaccttggc ttttgagcat  2220
ccgctaagaa gataagacct actcaagctg gaaatgccga tgcaatttc tgccaccact  2280
ccaaatactc ctccacaacc agcgtccctg tcactaattg cgagaatgat ggaattctgc  2340
ctgaagggtc ttgataccta ctcagtgagg tactttgctt ggattgctgt gattcttaaa  2400
aaaaaaa                                                             2407
```

<210> 6820
<211> 5325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (186)...(1820)
<223> similar to gi3021409 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6820
```
tactcctagc ttggcacgag gagactgtat ttccgtgagg gtggaagaaa atcataccat      60
atcagatgcc tcgcagagca ccaggcccac cgtgaaaggc tggtccctgc agacggcttc     120
ccatttttat gaccggatgc tgggaagcct gctggtccac aggtccatac atgaagtcac     180
cataagaggg tggttcccac ttcatcaaca cctcatcgcc gcgaggtgag gctaagatga     240
gcataaccag tgacgaggtg aactttctgg tgtatcggta tctccaggag tcaggttttt     300
cccactcggc tttcacgttt gggattgaga gccacatcag ccagtccaac atcaatggga     360
cgctagtgcc accggccgcc ctcatctcca ttctccagaa gggcctgcag tatgtagagg     420
ccgagatcag tatcaacgag gatggcacag tgttcgacgg ccgccccata gagtccctgt     480
cactgataga cgccgtgatg cccgacgtgg tgcagacgcg gcacgaggca ttccgagaga     540
agctcgctca gcagcaagcc agtgcggcgg cggcggcggc tgcggccacg gcagcagcga     600
cagcagccac cacgacctca gccggcgttt cccaccaaaa tccatcgaag aacagagagg     660
ccacggtgaa tggggaagag aacagagcac attcagtcaa taatcacgcg aagccaatgg     720
aaatagatgg agaggttgag attccatcca gcaaagccac agtccttcgg ggccatgagt     780
ctgaggtgtt catttgtgcc tggaatcctg tcagtgattt gctagcctcc ggatctggag     840
actcaactgc aaggatatgg aacctgaatg agaatagcaa cggggggctcc acccagctcg     900
tgttgaggca ctgtatacga gaggggggcc atgacgtccc gagtaacaaa gacgtcacct     960
cactggactg gaataccaat ggaacactct tggctacggg ttcatatgac ggttttgcaa    1020
gaatatggac ggaagatggt aacctggcca gcaccttagg ccaacataaa ggccccatct    1080
ttgccttgaa atggaaccga aaggggaatt acattttgag tgctggtgta gacaaaacaa    1140
caataatttg ggatgcccac acaggagaag ccaaacagca gtttcctttt cattcagccc    1200
ctgcccttga tgtggactgg cagaacaaca cgacctttgc ctcctgtagc acagacatgt    1260
gtatccatgt gtgcaggctc ggctgtgacc gcccagtcaa aaccttccag ggacacacaa    1320
acgaggtcaa cgccatcaaa tgggatccgt ctggaatgtt gctggcatcc tgctcggatg    1380
acatgacatt gaagatctgg agcatgaaac aggaggtgtg catccatgat cttcaggctc    1440
acaataaaga gatctacacc atcaagtgga gccccactgg gccccgccca ccagcaaccc    1500
aaactccaac atcatgttgg caagtgcttc gtttgattct acggtgcgac tgtgggacat    1560
agaacgaggc gtctgcaccc acacgctcac gaagcatcag gagcctgtct atagcgtagc    1620
tttcagccct gatgggaagt acttggccag tggatccttc gacaagtgcg tccatatctg    1680
gaatactcag agtggaaatc ttgtccacag ctaccgaggc actggcggca tcttcgaggt    1740
gtgctggaac gcccgaggag acaaagtggg tgccagcgcg tccgacggct ctgtgtgtgt    1800
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agccgtgaat gtgtagggtt gcagctctat tctccaaaac tgtaggaact tgacttgcgt    1920
tagagtgtac tctgaaacca actcgtctct ggccgcagga gtctatatgt tttcgtaatc    1980
ttcatcaaga agtttttaaa aggcaagcaa aaacagaagc aaatcatatc aaacgggat    2040
agaatggttt ccactgagga cattcagcct gggaaggagg aagtcaccag ctcgaggcgt    2100
gtggattggt ttccacccgg aacaggctct gtgatggctg aatggaaaga aacgtaaaaa    2160
gctgtgccaa aaaaaaagca aaatgctgtg ataaaccaaa cagggaaggg ggaaaaaccc    2220
tcctccttgg gatttttttt ttttgtttt ccctaacaat ttggacacta cgattgctct    2280
cacaaaggag gttcaaagac cagtttgtac cgatgaaacg cgcaactttg taatcccaac    2340
actttctatt ttctagaatc ttctttgttc attgggtggt ttttcagtcg ctggaattc    2400
tatcttctgg gggccttccg tctgagatgg aagctgtctt gggcttgttg tctcttcctt    2460
```

```
ctgttgctcc  ctgcccctcc  ccctgccttt  ccactctgtc  tggtgagctc  tgcttttttca  2520
gtgcaccatc  aagagatgca  gccccgtgga  catgaagaca  caatctccca  cggacagctt   2580
tcccccttcc  gccctctccc  accctctcct  ccccttgcgc  tcgcgctcgc  gctcgctttc   2640
tcactggcgt  gctctctttc  tctctctctc  tccctctgta  cctttctcat  agttgcttca   2700
gatcttaggt  ctcaagggca  ctttggcgcg  tagtaagtgc  tttatgtaag  aaggcagggc   2760
aggggggctt  tttacaggag  aaaaaaaatg  acttataaga  gaaagagcct  ggagtatttt   2820
tggaaaaaaa  aataatatttt ttatgttaaa  acaatttttaa  aatcttaaaa  tggccatcaa  2880
acatagagag  ctttgtgtga  ttcatgtttt  aaaaagaacc  gaagaagcca  caggcagggc  2940
ctgagggagc  ccctggcttt  cccctcagcc  tcaggaaagg  tggtcaggaa  aactctggct  3000
ggacaagggt  cagtcttcgg  ggtcagcagc  gagattgctc  tgcagccagt  gagggaggtc  3060
cccgccatgc  cggctggaag  aagaacctcg  catcttttgg  tgtgtatgca  ccttggcagc  3120
cagcaggaaa  gcagcgaaga  gccgcgcgcc  ctctggcctc  aagggagcat  tggcagaacc  3180
ataaggtact  gcagaagccg  tcgaaaccga  ctgctcggct  ggattaggcg  tgttggctac  3240
atctttccca  caaccgtata  acgaccgatg  gtcatttctc  caagagcagg  cttggcgagt  3300
ccttgcagag  ctgacataga  ggcgcccgca  tgtcacttag  tctaacgctg  acagaaatga  3360
atgcagaagg  aagattttca  gtcctgaacg  tgaattatag  aggtagaacg  tcgctaataa  3420
tttctgccat  ctttataatt  tctttgtctc  acagaagact  aggagaaaga  tcttttttaa  3480
ataatctttt  tgctgttttt  aaaaaattaa  acaaggcttt  gtgttcctag  aagagcttca  3540
tttcagtgaa  tctggtgacc  tccatctgct  tgctgtcata  acccgacacg  gacttatttt  3600
tgtcattagc  aaggggggaaa aggccaaagg  acaagggcct  cttctcccat  tggttttcct  3660
gtgggcagaa  gggctgagga  agatggccca  gcccgtgggg  gctgctgggt  caccagcagt  3720
gggtagggtg  caatctggtg  tgtgttccag  cagtgagacg  gtgttattgt  gaaggtggca  3780
ttcatctgcg  gagccaaaac  ccagccatcg  gggaagggtc  agggcttctg  tggaacttgg  3840
aacgtgccag  gaccacctgc  aaaagccagg  gtgcgtttga  tcatttctca  gatcatttga  3900
ttgggcctcc  actttggggt  atgtgaatta  ttcatgtccc  agaagaccaa  aaagtgctct  3960
ggttctgaga  tgagtatttt  attcgtgttc  tgtttccgaa  acacttagca  aagaaggtca  4020
cagtgatgtg  gagtcgccgc  acccatcttt  gaagatagcc  agtgtccctg  gatgaggtga  4080
tgatttcccg  tcccaaggac  tctgtgaagt  ttaaagtaca  gtttgttggg  gtccaaaaga  4140
caccatctct  accccaccca  aataaaaatg  cactcatctc  tgtagaacat  ctgctgtcaa  4200
aggccagcct  gtcgttaggg  catggcttat  gcttgacaaa  ccagtaacaa  ctgtgggatg  4260
gcgatggtgg  gatgtgtcgc  aagcaattca  ctagacaatc  ttcacatgaa  tgtcggtagc  4320
cagggtctct  cccgagggat  ggctttagtc  ttgatgaatg  tgaaccatgt  cggaattgtt  4380
aggtagaaac  ctgggctggg  aggcctcgga  ccccaggctc  catccctggc  ttccccagcc  4440
tgcggccgca  agcaaaacca  agcgcgagat  gcagctagca  cccttcatat  ccatccccgt  4500
tctcagcggg  acaacaccat  ggacagccgt  tttcagagcc  tccagcattt  gcacaccact  4560
actcaccctc  tctgctgctg  gcatgttggt  agagtcatcc  ctgtaatcaa  gaaatggcct  4620
gtggaatgtt  attgttcaac  gttgtttaca  gctcttaaaa  catggtgagg  aatgcctaag  4680
tcttagtgac  caaacgtgac  cttgaaagca  gacatagcat  gacagacctt  cctagagtgt  4740
ttggtcgggt  tcacagtgac  cgagagtcag  gtccagcaca  cacctgggaa  agggatgctg  4800
ccccaagggg  gaccaaaagg  gccggacgtt  acagggtgaa  accctctgac  ccctcgcgac  4860
accgtaggac  ttgacttttg  tttagtcttt  ctaagaaata  gatcatggag  ccaagtgaag  4920
tgcactttgt  caaatgtaag  ggtctgcttt  gttcttgatg  cttttctgtt  tttttaacct  4980
tttgttccgc  catttataaa  aagaaaaaaa  aaaagcttat  gtttccttgt  caaaatgcag  5040
aaatgttccc  ttcccgccca  ctcactgaag  ttttgcattc  tggcttgtgc  agtttttatt  5100
gtctgtgtca  gacgtacagc  cagacatgtt  ctctattggc  attttttccga  ttctgttcag  5160
atgacagcga  ccgccttttc  attccccccg  ccacctgtac  tcaccctcac  gctctttgaa  5220
gaaaaaaaaa  aaaaatcacc  ttgtgtgttg  tagctcattt  gtttcaagag  agaatcaaca  5280
gatcgatatt  cagtgtcttg  aataaattgc  tctattttga  tatta               5325
```

<220>
<221> misc_feature
<222> (98)...(2643)
<223> similar to gi3282619 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6821
actagctgtc gctccacagg cgagcagggc aggcgtgcgg gcgggtgggt ggtggaggct   60
gcgagggtgc acggccggcc ctgggcaggc ggtagccatg gagctgtggc gccaatgcac   120
ccactggctc atccagtgcc gggtgctgcc gcccagccac cgcgtgacct gggatggggc   180
tcaggtgtgt gaactggccc aggccctccg ggatggtgtc cttctgtgtc agctgcttaa   240
caacctgcta ccccatgcca tcaacctgcg tgaggtcaac ctgcgccccc agatgtccca   300
gttcctgtgc cttaagaaca ttagaacctt cctgtccacc tgctgtgaga agttcggcct   360
caagcggagc gagctcttcg aagcctttga cctcttcgat gtgcaggatt ttggcaaggt   420
catctacacc ctgtctgctc tgtcctggac cccgatcgcc cagaacaggg ggatcatgcc   480
cttccccacc gaggaggaga gtgtaggtga tgaagacatc tacagtggcc tgtccgacca   540
gatcgacgac acggtggagg aggatgagga cctgtatgac tgcgtggaga atgaggaggc   600
ggaaggcgac gagatctatg aggacctcat gcgctcggag cccgtgtcca tgccgcccaa   660
gatgacagag tatgacaagc gctgctgctg cctgcgggag atccagcaga cggaggagaa   720
gtacactgac acgctgggct ccatccagca gcatttcttg aagcccctgc aacggttcct   780
gaaacctcaa gacattgaga tcatctttat caacattgag gacctgcttc gtgttcatac   840
tcacttccta aaggagatga aggaagccct gggcacccct ggcgcagcca atctctacca   900
ggtcttcatc aaatacaagg agaggttcct cgtctatggc cgctactgca gccaggtgga   960
gtcagccagc aaacacctgg accgtgtggc cgcagcccgg gaggacgtgc agatgaagct 1020
ggaggaatgt tctcagagag ccaacaacgg gaggttcacc ctgcgggacc tgctgatggt 1080
gcctatgcag cgagttctca aatatcacct ccttctccag gagctggtga aacacacgca 1140
ggaggcgatg gagaaggaga acctgcggct ggccctggat gccatgaggg acctggctca 1200
gtgcgtgaac gaggtcaagc gagacaacga gacactgcga cagatcacca atttccagct 1260
gtccattgag aacctggacc agtctctggc tcactatggc cggcccaaga tcgacgggga 1320
actcaagatc acctcggtgg aacggcgctc caagatggac aggtatgcct tcctgctcga 1380
caaagctcta ctcatctgta agcgcagggg agactcctat gacctcaagg actttgtaaa 1440
cctgcacagc ttccaggttc gggatgactc ttcaggagac cgagacaaca agaagtggag 1500
ccacatgttc ctcctgatcg aggaccaagg tgcccagggc tatgagctgt tcttcaagac 1560
aagagaattg aagaagaagt ggatggagca gtttgagatg gccatctcca acatctatcc 1620
ggagaatgcc accgccaacg ggcatgactt ccagatgttc tcctttgagg agaccacatc 1680
ctgcaaggcc tgtcagatgc tgcttagagg taccttctat cagggctacc gctgccatcg 1740
gtgccgggca tctgcacaca aggagtgtct ggggagggtc cctccatgtg gccgacatgg 1800
gcaagatttc ccaggaacta tgaagaagga caaactacat cgcagggctc aggacaaaaa 1860
gaggaatgag ctgggtctgc ccaagatgga ggtgtttcag gaatactacg ggcttcctcc 1920
accccctgga gccattggac cctttctacg gctcaaccct ggagacattg tggagctcac 1980
gaaggctgag gctgaacaga actggtggga gggcagaaat acatctacta atgaaattgg 2040
ctggtttcct tgtaacaggg tgaagcccta tgtccatggc cctcctcagg acctgtctgt 2100
tcatctctgg tacgcaggcc ccatggagcg ggcaggggca gagagcatcc tggccaaccg 2160
ctcggacggg actttcttgg tgcggcagag ggtgaaggat gcagcagaat ttgccatcag 2220
cattaaatat aacgtcgagg tcaagcacat taaaatcatg acagcagaag gactgtaccg 2280
gatcacagag aaaaaggctt ccgggggct tacggagctg gtggagtttt accagcagaa 2340
ctctctaaag gattgcttca agtctctgga caccaccttg cagttcccct tcaaggagcc 2400
tgaaaagaga accatcagca ggcccagcag tgggaagcac aaagtatttt ggcacagcca 2460
aaagccccgc tatgacttct gcgcccgag accgaatcag agctgtcgct caaggagggt 2520
gacatcatca catatcctta acaaagaagg gacagcaagg ctggtggcga ggggagatct 2580
atggccgggt tggctggttc cctgccaact acgtggagga agattattct gaatactgct 2640
gagccctggt gccttggcag agagacgaga aactccaggc tctgagcccg cgtgggcag   2700
gcagcggagc caggggctgt gacagctccc ggcgggtgga gactttggga tggactggag 2760

5491

```
gaggccagcg tccagctggc ggtgctcccg ggatgtgccc tgacatggtt aatttataac    2820
accccgattt cctcttgggt cccctcaagc agacggggct caagggggtt acatttaata    2880
aaaggatgaa gatgg                                                      2895
```

```
<210> 6822
<211> 2419
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2420)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2344)...(371)
<223> similar to gi31280 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
      <400> 6822
tttttttttt ttaaaaacat ttgggatttt tttttaaaaa aaaaaaaaac atcacaacca      60
tgaacattgt tacagttaag aggccctctt ggttctccac aatgatactg agcatgctca     120
caaggggttc ccattgttaa agtcttaaac aaccattttt aaaagaagga agaaaaaaaa     180
actccgcaca ctaccattta acttgtttta atgtttcttc acaaatggtg aaaaatacta     240
aagtacagac aaggaataat cataatgttg tggccaacat tataaatatg gaattataaa     300
tttaaaacat tttctggttt aaaaaataaa tctggtagtc aatgcagctc tgcggggtct     360
ctgcatctag tagggccgat ctctgcgctc ctgacggtgc tcgcctttat ccatttttcc     420
aggtcctcca cgtcctcctc ttcttcctcc catctgttcc atcaaaggtc caggggggccc     480
cccagggcca cctcgtcttc ctccaccaaa gccacctcgg tccatgcccc ggccaccacg     540
gaagccacct ctgtctccac cacggccacc tctgaacatt ccaccgggac caccacgatc     600
catgaggcca cctcttcctc cccgcatgcc accagggcca cctctgccac gatcaccacc     660
cgggggcgga aagggtggcg ggaggaagcc ttcaggcttt ggggccttac actggttgca     720
ctctgttctc caggcgaagt tctggtttcc acaacccgga ttgggacact gccagtctcc     780
agctcggtgc tggacgtttc ctcctccaga ggggttccct cgggaacccc ggggtcctct     840
tggagggaag cctcctctat ctcctccacg gcctcccatg cgacccatgg gtcccccagg     900
acctcctggg cctcctggac ctccacggag tggtggtggc atgcctctgc cctcacgggg     960
tggcagacca ccccgcatac tgttcattgg aggcttcttc cgagcaaggg agactttaag    1020
tttgctccct tgaaaatctt tcccatcaaa ccattccacg gcagccttgg cagtgggtgg    1080
gtcttcatag gacactgtgg catcgccttt gggctttcct gtttccttgt ccaggtagat    1140
gtggatcatg ggttgcccag ttctcttgtt catcttaaca accccacact gcttaaagaa    1200
gtctgccaga tcatctagag tcacactgtc atttaatcct tgtacataaa ttgcactgtt    1260
gtcagagtct tcatctggat ctacaggtgg gcctagatca agatctggtc cttcatccat    1320
gggtccacca ggcttattga agccacctcg ctctccagcg ctgcccattc caccgcgtcc    1380
tcctccccgc ccacctctgc tcatgcctcc acgatcaaat ccccctcttc ccctgccccg    1440
gttatcaggg ccactcatgc tccggttctc tcctggtccg gaaaatcctc cagactcctg    1500
cccataaaca ccccatgcct actggggtgg tcctgtcgga atgaactctg ctgcccgtag    1560
ctgctgctct gttggctata ttgacttgga gcttggctgt aggatccagt ttggggtggg    1620
taactagtgg gaggctgctg cccatagctg ctttgttgac catagctact ctgctgtcca    1680
tagctgctcg gttgcccata ggtgttctgc tgagagtaac tgctctgatc ataactagtc    1740
```

```
ggctgtgtag aggaatagct ggtaggaggg taggatggag gtgcagtgac tggctgcatg      1800
gggtagctcc caggtacctg gggataactg tagttactct gtccatatcc taggctgggc      1860
tggttgtaac cccctgtgct agattgaggt tgactagtct cagtgggctt gtttccatcc      1920
tgcggtcttg taggtgcagt ggctgctggc tgctgcccat aggctggata agcaggctga      1980
gtgccatatg cagactgagc tgcataggag gcctgggtgg tggtgactgt agcagtggtg      2040
gtatcataag caccagtgcc atacccctgg acaggctggc tgtatgcctg gggggcagtt      2100
ggagtagtat aaccagtggg aggctgtcca taagaagttg cataggcggt ctgcccatag      2160
gttgcagtgg tctgagcctg ggtatagctg acatcagtgg gctgtccata ggttccatag      2220
ctttgttgcc catatgcctg ggtggtctgt gcatatcctt gagtgggctg ggcggtgtaa      2280
gcactgtagc cctgctgcgc tgcagcttgg ctataggtac tgtaatccgt ggacgccatt      2340
ttctctcctt cctcctcgtt ctctcaacgt ccgcggacgg gtgggtcgac tnnnnnttna      2400
nngtcnnntg cgcagcctc                                                   2419
```


<210> 6823
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (373)...(0)
<223> similar to gi15063 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6823
```
accacgctgc aggcttgata gtcatatcat ctgaataaat attcctgatg tatcgatatc        60
ggtaattctt attccttcgc taccatccat tggaggccat ccttcctgac catttccatc       120
attccagtcg aactcacaca caacaccata tgcatttaag tcgcttgaaa ttgctataag       180
cagagcatgt tgcgccagca tgattaatac agcatttaat acagagccgt gtttattgag       240
tcggtattca gagtctgacc agaaattatt aatctggtga agttttcct ctgtcattac        300
gtcatggtcg atttcaattt ctattgatgc tttccagtcg taatcaatga tgtatttttt       360
gatgtttgac atctgttcat atcctcacag ataaaaaatc gccctcacac tggagggcaa       420
agaagatttc caataatcag aacaagtcgg ctcctgttta gttacgagcg acattgctcc       480
gtgtattcac tcgttggaat gaatacacag tgcagtgttt attctgttat ttatgccaaa       540
aataaaggcc actatcaggc agctttgttg ttctgtttac caagttctct ggcaatcatt       600
gccgtcgttc gtattgccca tttatcgaca tatttcccat cttccattac aggaaacatt       660
tcttcaggct taaccatgca ttccgattgc agcttgcatc cattgcatcg cttgaattgg       720
ccacaccatt attattttcn natggtngtt gtcatatgcn gtcagtctca t                771
```


<210> 6824
<211> 708
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)...(653)
<223> similar to gi1789677 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters


<400> 6824
gcaatattcc cgggctgcga aaatgcgtac cagcaaatgg aagaattact ctttgaagtg      60
aatgaaggta tgctgcatta atcatttctt taattcagca taagttgtta tggcgaaatc     120
agcactgttc acggtgcgta ataatgagtc ctgcccaaag tgcggggctg aactggttat     180
tcgatccggg aaacacggtc cgtttcttgg atgctcacag tatccggcgt gtgactacgt     240
ccgtcctctg aaatcttcag cggatggaca tatcgtcaaa gttctggagg ggcaggtttg     300
ccctgcatgt ggcgcaaatc tggtattacg ccagggacgc tttggtatgt ttattggttg     360
cattaactac cctgaatgcg aacataccga acttatcgat aaaccggacg aaacagcaat     420
tacatgcccc caatgtcgga cgggccatct ggtccagcgc cgctcccgtt atggcaaaac     480
atttcactct tgtgatcgct acccggagtg tcaatttgcc attaacttca aacccatagc     540
tggagaatgc cctgagtgtc attatccgct actcatcgaa aagaaaaccg cgcagggtgt     600
aaaacacttt tgtgccagta aacaatgtgg aaagccggtt tcggcggaat aataacgtga     660
ataataacct gcaaagagac gctatcgcag ctgcgatcca tgttctca                 708


<210> 6825
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1211)...(674)
<223> similar to gi3319282 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters


<400> 6825
tttttttttt ttctttaatt gattttattt ttttacataa aaagttcagt aaaaattgga      60
taaagtaaag tgattttaag cagtaaatca atcttatcaa catagcacaa ggctggccaa     120
aaccacaagg cagcctgctt tggaatattt acatgataac aaattaaacc ttgcaggaga     180
acttaaactg tccttacaaa gtcttcctgt gatcctagca tgtagaggct aaaagcaaaa     240
cgaaaaccaa acaaaaacca ggaaaaaaca aattattttc aatatattca catatacatt     300
aaaatataat acagatcatc agggtaaagg gttgtgggtg gggatgcgca tgggtctgtg     360
cgctgacagc accgccaagg agaagaccca ggtttaagag tggagtcagg tctggccagg     420
gtctttttta agcccttgca cctctgatgg cttctaacca catgccaaca gctcacaact     480
aggtaatcac ttgtagatgg agttcatttt tgtggccttc agttgacatc tgcagggttg     540
aattccccag ggtgatgtat catcagtagc acagtgctga cagggtggga acagaaaggc     600
ccacaggatt tcctctccct agagtctgtc ttacctgacc acccatcctc ccagcctggc     660
ccaacagtca ctctaaattc agtgtcctct ttgggtttgt aaacagcccc aaacttctgc     720


                                     5494

```
atgtacttct taatgtactc cttggttttg tgtttcacat tctcattgca ctccaggtcc   780
ctcaggattc ttacagtact tcagctcctt attcataaca ccgtgagtca gcttgcgagc   840
cagatgttta aagtcttcag ttgtggtaat tcttccccac tttgcagtca ggtttccggt   900
aagggttcag gcactggacg atgaactggg acatctcttt tctgaatact tctttgcttt   960
tctttgctag ttcactggag gtgtctgctt ctgctgtctt gggcttttc gaagcccttc  1020
atggggtttt catcatatgt tggagttccc aggtccatct cagcttcatg ctcaaggctg  1080
gcatcatctc ctgggctttc ccaagtagga ggatcccact gagtctgcct tgtgatcaca  1140
tggtagtaat aaatcttccc ttctggatct cgagctgtct tccagttggg aggtaagaca  1200
atggttttg gtttgggagg agaggggggc ggcagatcca agagattatt tgtcacaacc  1260
atttcagatg gctgcaaggg ctgaggctgc cctggtgcaa ctattgtagt cactgctgcg  1320
gctggctgta ccaccactcc ttgtggatga gctgtgaaaa tctgttgccc ctggatatac  1380
tgaagacttg gctgggcata actctgtaca attggtggag ttgtctgtga ataaggtgat  1440
gtcacaccat agaactgttg gacatgtcct gtcccttgat aatatatggt tgccttgaaa  1500
ctgtgcagga gagtactggc tgctgtacca ctgacagact gttggtttga atcc         1554
```

<210> 6826
<211> 1738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1328)...(843)
<223> similar to gi5712203 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6826

```
tttttttttt ttcagaatcc acacaccacc tggtggctcc ttttattata tcaatttatt    60
caagtgatta aaaaacttct tggcagcagg atgacaaaac aggtctgtaa acatgatttc   120
atccccccat cccttcttcc aaggagcttc ctatgacagg aaatcgaatt ctagttggca   180
aatccagtga tgaggtctgt agaaaagggg tcccgtgtca cagccaggaa ggcagactcg   240
tccctttaac ccactccagc caggggtgct ggccaggatg tgctgttctg tcatgacgtg   300
gtcactgagt ctggttcgtt ggcagcccct tccccaggag gagggagact ctttggcagt   360
gcggcagccc tcccgggggc acgggcttct cagcagcaga cacaggcagg cgaaaagcag   420
gcagctgagc ctctccagcg agcatggtat tgctagggtt gcaggtgccc tggcaggtgg   480
ccaggtgagg ggctgaggca caagtgctat caggaacttg gctgccccac aggggctgag   540
gacacccaga tggtccacgc cagtggcctt gaaatttccc ctgcagaagc cagaccgtgg   600
ggaaacaagc tttcgcgacg tgccaccccg ggcagcttga ggcttcagtc cttgaagggg   660
ttgtgggcgc ccctggctg ctccttctct gcggccagag gctccccatt catctcctgc   720
agcgggtggt atgcatagtc cccatgcagg cgccggttcc tctctgctct ggacaggagc   780
aaggacaggt ttgctgcagt gctgatcagc aggaggaagg ccagcgccag ggtgagggct   840
agccaggcgg tcctggtgaa aaaggagagt tctcccgccc tcagggtggc ttcaggtggc   900
tggagacact gctttactct ggagacgctg cagttgccag tcttggggtc acaggacaa   960
tggtgctcac acttacaagg cctctggcag cccggcccat gccagccaag gggacactct  1020
tcactgcagt tggacccggt ccatccggca tcacagcggc agccggtctc cgtgcacagt  1080
ccgtgctggc tgcagttaga ggggccacag tccagctcat cacagccggg accccgccag  1140
aagtgcccgg tgcattggca gtgcccgtcc acgcaggtcc cgtggccgtg gcagtcaggc  1200
ggctggcagc ggggttcgtg cacacacacc acggtggaca cttggcgggg acagcgccac  1260
atgttgtcct ggcagtgatc tgacgggtaa ctggccaagg tcccgttgag cacaaaggtg  1320
gcagagccac ccccatccag gttgatggcg ttgaccacgt cctgtttcag caggaactcc  1380
```

5495
```

```
gccatttccc acaggttgat gctgcggcac aaagcggcgc tgctcaggct cagcgcccac    1440
catcatttct catttaactc cttttccttc cacagtgcag agcatcacgc ccacagtgca    1500
ggcacatttt taagtggccc ccgcccccaa gcatgtctca tcctagcccc cggaagctgt    1560
gaacacgtga gatcacaccc atgcctgtgc tgttacatgg cataggaatc cttaagggag    1620
gggaaacggc ccggaggatc·tgggtgcagc cactggaatc acaggagtgt tcaacacaga    1680
gagccttctc tggctcctcg tgccaagctt aacgtgttca cagtcaaggt gtttctat     1738
```

```
          <210> 6827
          <211> 3500
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (3241)...(1260)
          <223> similar to gi180616 in the genepept database release 114,
               Run with FASTXY 3.3t00, default parameters
```

```
          <400> 6827
taattattgt tttctttttt ttttcaacta ataatggcct tttttatttta tgtggttgga      60
aaggttaaaa taggtgacac gtgaaaagtg ccttgcacat agaaagcact ctattaattg     120
aggggggatat tattgttact gttcattgtt agtagtagca ttaaaactga tatgattgct     180
aatgaagaaa cagacttaaa gaggaagcaa acctcgaaca gatgccacaa taaagcaaca     240
aaattgctga ttcttcaggg ctctttctac aggacagagg gactagagct tactctccct     300
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agtagagtga acaggggaac catcactatg tgggctgaga tgcactgtgc agtgacttca     660
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tggcgtcaca gtccgccaaa tgaaccggtc cttgaagaag aagatctcac cacggatctg    1800
agcgatgcca tcaaatacaa tgtcctgttt gcagatctca ggagtgacag ggcccagcgt    1860
```

5496

```
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ggccccaggg tcttgggagt gctccagccc catggcgtgg ccaaactcgt gggctgccac    2040
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ggctgtggtc gcacaccaca tctttccgtc actgcggccg gcgctggtgc agctctcata    2160
tttgttgccc aggaaagtga aggggaagac acagggggca ccttctgagt tcccaccaac    2220
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gagacagagc gccctcaggg gacccgtgag cgcggccccg ggccattagc gcctccatcg    3240
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cgccgcctgg ttggagcctg ctccgcggcg cagggctgcg ctccgagggt ccgctggctc    3360
ggtggcctgg ggtttgcccg gctcagcggc tcatggtccg gccccgcgc cccagccccc    3420
gccgccgccg ccgccgccgc aggtcctggc aatccctttg tatgtttaaa gccccagatg    3480
cgcagcctcc agccaccgcc               ·                                3500
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<210> 6828
<211> 2018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (185)...(1910)
<223> similar to gi3184391 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6828
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tccgctttct ccctcgccca cagctgccgg atagtgctga agaggagggg gcgttcccca    180
gaccatggca tctacggaag gtgccaacaa tatgcccaag caggtggaag tgcgaatgca    240
cgacagtcat cttggctcag aggaacccaa gcaccggcac ctgggcctgc gcctgtgtga    300
caagctgggg aagaatctgc tgctcaccct gacggtgttt ggtgtcatcc tgggagcagt    360
gtgtggaggg cttcttcgct tggcatctcc catccaccct gatgtggtta tgttaatagt    420
cttcccaggg gatatactca tgaggatgct aaaaatgctc attctccctc taatcatctc    480
cagcttaatc acagggttgt caggcctgga tgctaaggct agtggccgct tgggcacgag    540
```

5497

```
agccatggtg tattacatgt ccacgaccat cattgctgca gtactggggg tcattctggt      600
cttggctatc catccaggca atcccaagct caagaagcag ctggggcctg ggaagaagaa      660
tgatgaagtg tccagcctgg atgccttcct ggaccttatt cgaaatctct tccctgaaaa      720
ccttgtccaa gcctgctttc aacagattca aacagtgacg aagaaagtcc tggttgcacc      780
accgccggac gaggaggcca acgcaaccag cgctgttgtc tctctgttga acgagactgt      840
gactgaggtg ccggaggaga ctaagatggt tatcaagaag ggcctggagt tcaaggatgg      900
gatgaacgtc ttaggtctga tagggttttt cattgctttt ggcatcgcta tggggaagat      960
gggagatcaa ggccaagctg atggtggatt tctccaacat tttgaacgag attgtaatga     1020
agttagtgat catgatcatg tggtactctc ccctgggtat cgcctgcctg atctgtggaa     1080
agatcattgc aatcaaggac ttagaagtgg ttgctaggca actggggatg tacatggtaa     1140
cagtgatcat aggcctcatc atccacgggg gcatctttct cccccttgatt tactttgtag     1200
tgaccaggaa aaaccccttc tccttttttg ctggcatttt ccaagcttgg atcactgccc     1260
tgggcaccgc ttccagtgct ggaactttgc ctgtcacctt tcgttgcctg gaagaaaatc     1320
tggggattga taagcgtgtg actagattcg tccttcctgt tggagcaacc attaacatgg     1380
atggtacagc cctttatgaa gcggtagccg ccatctttat agcccaaatg aatggtgttg     1440
tcctggatgg aggacagatt gtgactgtaa gcctcacagc caccctggca agcgtcggcg     1500
cggccagtat ccccagtgcc gggctggtca ccatgctcct cattctgaca gccgtgggcc     1560
tgccaacaga ggacatcagc ctgctggtgg ctgtggactg gctgctggac aggatgagaa     1620
cttcagtcaa tgttgtgggt gactcttttg gggctgggat agtctatcac ctctccaagt     1680
ctgagctgga taccattgac tcccagcatc gagtgcatga agatattgaa atgaccaaga     1740
ctcaatccat ttatgatgac atgaagaacc acagggaaag caactctaat caatgtgtct     1800
atgctgcaca caactctgtc atagtagatg aatgcaaggt aactctggca gccaatggaa     1860
agtcagccga ctgcagtgtt gaggaagaac cttggaaacg tgagaaataa ggatatgagt     1920
ctcagcaaat tcttgaataa actccccagc gtatcctatg gtaactgatg atataaacaa     1980
gctttcttta aaaggaaaa  aaatgcgtat atttctat                             2018
```


```
<210> 6829
<211> 2510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (46)...(2314)
<223> similar to gi1079787 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 6829
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ggggttattc ggcggctgga cgagacagtg gtgaaccgca tcgcggcggg ggaagttatc      120
cagcggccag ctaatgctat caaagagatg attgagaact gatgcaaaat ccacaagtat      180
tcaagtgatt gttaaagagg gaggcctgaa gttgattcag atccaagaca atggcaccgg      240
gatcaggaaa gaagatctgg atattgtatg tgaaaggttc actactagta aactgcagtc      300
ctttgaggat ttagccagta tttctaccta tggctttcga ggtgaggctt tggccagcat      360
aagccatgtg gctcatgtta ctattacaac gaaaacagct gatggaaagt gtgcatacag      420
agcaagttac tcagatggaa aactgaaagc ccctcctaaa ccatgtgctg gcaatcaagg      480
gacccagatc acggtggagg accttttta caacatagcc acgaggagaa aagctttaaa       540
aaatccaagt gaagaatatg ggaaaatttt ggaagttgtt ggcaggtatt cagtacacaa      600
tgcaggcatt agtttctcag ttaaaaaaca aggagagaca gtagctgatg ttaggacact      660
acccaatgcc tcaaccgtgg acaatattcg ctccatcttt ggaaatgctg ttagtcgaga      720
```

```
actgatagaa attggatgtg aggataaaac cctagccttc aaaatgaatg gttacatatc      780
caatgcaaac tactcagtga agaagtgcat cttcttactc ttcatcaacc atcgtctggt      840
agaatcaact tccttgagaa aaagccatag aaacagtgta tgcagcctat ttgcccaaaa      900
gcacacaccc attcctgtac ctcagtttag gaaatcagtc cccagaatgt gggatgttaa      960
tgtgcacccc acaaagcatg aagttcactt cctgcacgag gagagcatcc tggagcgggt     1020
gcagcagcac atcgagagca agctcctggg ctccaattcc tccaggatgt acttcaccca     1080
gactttgcta ccaggacttg ctggcccctc tggggagatg gttaaatcca caacaagtct     1140
gacctcgtct tctacttctg gaagtagtga taaggtctat gcccaccaga tggttcgtac     1200
agattcccgg gaacagaagc ttgatgcatt tctgcagcct ctgagcaaac ccctgtccag     1260
tcagccccag gccattgtca cagaggataa gacagatatt tctagtggca gggctaggca     1320
gcaagatgag gagatgcttg aactcccagc ccctgctgaa gtggctgcca aaaatcagag     1380
cttggagggg gatacaacaa aggggacttc agaaatgtca gagaagagag gacctacttc     1440
cagcaacccc agaaagagac atcgggaaga ttctgatgtg gaaatggtgg aagatgattc     1500
ccgaaaggaa atgactgcag cttgtacccc ccggagaagg atcattaacc tcactagtgt     1560
tttgagtctc caggaagaaa ttaatgagca gggacatgag gttctccggg agatgttgca     1620
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catgcttgcc ttagatagtc cagagagtgg ctggacagag gaagatggtc ccaaagaagg     1860
acttgctgaa tacattgttg agtttctgaa gaagaaggct gagatgcttg cagactattt     1920
ctctttggaa attgatgagg aagggaacct gattggatta ccccttctga ttgacaacta     1980
tgtgccccct ttggagggac tgcctatctt cattcttcga ctagccactg aggtgaattg     2040
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ccggaagcag tacatatctg aggagtcgac cctctcaggc cagcagagtg aagtgcctgg     2160
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gtgttcttct ttctctgtat tccgatacaa agtgttgtat caaagtgtga tatacaaagt     2400
gtaccaacat aagtgttggt agcacttaag acttatactt gccttctgat agtattcctt     2460
tatacacagt ggattgatta taaataaata gatgtgtctt aaaaaaaaaa             2510
```

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ttnttttttt tttttcagt ctcatctggg ttggatccaa agacattcag aggcatggta      120
```

```
agaggcaaag catcagacat ctcattggtg gcaggtactt cctgactact gtaccacctg     180
ctgtatcctt ccccacctca tcacccccaa agccatttag tgccaaatgc tacagtaaaa     240
acccaatgca tttacataaa ataatgccta actgcatatt taccattttt tagaaaaaaa     300
aatcccattt aagctcttct aggaaagtta tggcaggaaa ggtaaggacc aaggctattg     360
agcaagccct tattgtggga accttaaaag taagatgggg cactgagttt tcccccataa     420
gttgggaaaa aagccacact ggggcccact cttccctgtg aggcaagatg agaccttcct     480
tttataccct gttgagaatc tcaggtggac aacgtgactg catgagtgtt gaaaggcagc     540
ttgccggctt agttatcacc ttgcagaggt agctatgcac tacacagcca cactgcccaa     600
agcgcgctac taagaacact ggtcctacaa agggctcctt gtaagagaac tttaggaatc     660
acaagtattt agaaaatact atacactatc atttccttcc tagagatccg caatgcacat     720
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gagtttccat atcaacctga ccttggaatc tcttactttt ttaggtgaca catatcatag     840
aacatattct gagaaatgct cctctatggc tttgagaaaa tctttgcaga aacaaaataa     900
taataatttt ttacttaaaa aaattaagta actagtagga tcaagtgttg gtcaacaaca     960
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5500